

Code	Description	Unit	Rate
1	WIRING IN CONCEALED STEEL CONDUIT		
1.1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.		
1.1.1	Short Point	Point	297.00
1.1.2	Medium Point	Point	528.00
1.1.3	Long Point	Point	806.00
1.2	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.	Point	468.00
1.3	Extra for providing and fixing light plug point on board in concealed steel conduit point wiring with piano type 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.etc. as required.	Point	100.00
1.4	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with piano type 6 amp switch and 3 pin 6 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
1.4.1	Short Point	Point	413.00
1.4.2	Medium Point	Point	752.00
1.4.3	Long Point	Point	1153.00
1.4.4	Extra Long Point I	Point	1705.00
1.4.5	Extra Long Point II	Point	2291.00
1.4.6	Extra Long Point III	Point	2807.00
1.5	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with piano type 16 amp switch and 6 pin 16 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
1.5.1	Short Point	Point	578.00
1.5.2	Medium Point	Point	1028.00
1.5.3	Long Point	Point	1586.00
1.5.4	Extra Long Point I	Point	2248.00
1.5.5	Extra Long Point II	Point	2962.00
1.5.6	Extra Long Point III	Point	3679.00
1.6	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with 20amp 2 pole & earth, industrial type socket outlet, 32amp "C" curve SP MCB, in sheet steel enclosure with metal plug top and chained metal cover for the socket out let, earthing the switch box and socket outlet with same size cable etc. as required.		



1.6.1	Short Point	Point	1344.00
1.6.2	Medium Point	Point	1914.00
1.6.3	Long Point	Point	2613.00
1.6.4	Extra Long Point I	Point	3455.00
1.6.5	Extra Long Point II	Point	4407.00
1.6.6	Extra Long Point III	Point	5300.00
1.7	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
1.7.1	Short Point	Point	340.00
1.7.2	Medium Point	Point	581.00
1.7.3	Long Point	Point	849.00
1.8	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
		Point	542.00
1.9	Extra for providing and fixing light plug point on board in concealed steel conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.		
		Point	236.00
1.10	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
1.10.1	Short Point	Point	532.00
1.10.2	Medium Point	Point	871.00
1.10.3	Long Point	Point	1272.00
1.10.4	Extra Long Point I	Point	1824.00
1.10.5	Extra Long Point II	Point	2410.00
1.10.6	Extra Long Point III	Point	2927.00
1.11	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
1.11.1	Short Point	Point	667.00
1.11.2	Medium Point	Point	1117.00
1.11.3	Long Point	Point	1675.00
1.11.4	Extra Long Point I	Point	2337.00
1.11.5	Extra Long Point II	Point	3088.00
1.11.6	Extra Long Point III	Point	3780.00



1.12	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with modular type 32 Amp SPMCB "C" curve and 6 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
1.12.1	Short Point	Point	746.00
1.12.2	Medium Point	Point	1317.00
1.12.3	Long Point	Point	2015.00
1.12.4	Extra Long Point I	Point	2858.00
1.12.5	Extra Long Point II	Point	3810.00
1.12.6	Extra Long Point III	Point	4703.00
1.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed steel conduit as required.		
1.13.1	3 X 1.5 sq. mm in 20mm conduit	Metre	132.00
1.13.2	3 X 2.5 sq. mm in 20mm conduit	Metre	153.00
1.13.3	6 X 2.5 sq. mm in 25mm conduit	Metre	231.00
1.13.4	9 X 2.5 sq. mm in 32mm conduit	Metre	334.00
1.13.5	12 X 2.5 sq. mm in 32mm conduit	Metre	391.00
1.13.6	3 X 4 sq. mm in 25mm conduit	Metre	200.00
1.13.7	3 X 6 sq. mm in 25mm conduit	Metre	241.00
1.13.8	3 X 10 sq. mm in 25mm conduit	Metre	342.00
1.13.9	3 X 16 sq. mm in 32mm conduit	Metre	519.00
1.13.10	2 X 25 sq. mm + 1 X 16 sq. mm in 32mm conduit	Metre	649.00
1.13.11	6 X 2.5 sq. mm in 25mm conduit	Metre	231.00
1.13.12	6 X 4 sq. mm in 32mm conduit	Metre	331.00
1.13.13	6 X 6 sq. mm in 32mm conduit	Metre	416.00
1.13.14	6 X 10 sq. mm in 40mm conduit	Metre	698.00
1.13.15	6 X 16 sq. mm in 50mm conduit	Metre	1055.00
1.13.16	4 X 25 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1306.00
1.13.17	4 X 35 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1573.00
1.14	Extra for point wiring in concealed in steel conduit at height above 4 metre from floor level, for every 2 metres or part thereof .	Point	4.80
1.15	Supplying and fixing of following sizes steel conduit along with accessories in concealed complete as required.		
1.15.1	20 mm	Metre	86.00
1.15.2	25 mm	Metre	102.00
1.15.3	32 mm	Metre	146.00
1.15.4	40 mm	Metre	220.00
1.15.5	50 mm	Metre	304.00
2	WIRING IN SURFACE STEEL CONDUIT		
2.1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable including painting etc as required.		
2.1.1	Short Point	Point	287.00
2.1.2	Medium Point	Point	522.00
2.1.3	Long Point	Point	785.00



2.2	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable including painting etc as required.	Point	462.00
2.3	Extra for providing and fixing light plug point on board in surface steel conduit point wiring with piano type 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.etc. as required.	Point	100.00
2.4	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with piano type 6 amp switch and 3 pin 6 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable including painting etc. as required.		
2.4.1	Short Point	Point	402.00
2.4.2	Medium Point	Point	735.00
2.4.3	Long Point	Point	1131.00
2.4.4	Extra Long Point I	Point	1629.00
2.4.5	Extra Long Point II	Point	2198.00
2.4.6	Extra Long Point III	Point	2697.00
2.5	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with piano type 16 amp switch and 6 pin 16 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable including painting etc. as required.		
2.5.1	Short Point	Point	552.00
2.5.2	Medium Point	Point	979.00
2.5.3	Long Point	Point	1511.00
2.5.4	Extra Long Point I	Point	2162.00
2.5.5	Extra Long Point II	Point	2898.00
2.5.6	Extra Long Point III	Point	3242.00
2.6	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with 20amp 2 pole & earth, industrial type socket outlet, 32amp "C" curve SP MCB, earthing the switch box and socket outlet with same size cable including painting etc as required.		
2.6.1	Short Point	Point	1319.00
2.6.2	Medium Point	Point	1866.00
2.6.3	Long Point	Point	2428.00
2.6.4	Extra Long Point I	Point	3200.00
2.6.5	Extra Long Point II	Point	4062.00
2.6.6	Extra Long Point III	Point	4853.00
2.7	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface steel conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable including painting as required.		
2.7.1	Short Point	Point	330.00



2.7.2	Medium Point	Point	565.00
2.7.3	Long Point	Point	749.00
2.8	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface steel conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable including painting etc as required.	Point	545.00
2.9	Extra for providing and fixing light plug point on board in surface steel conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.	Point	236.00
2.10	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable including painting etc. as required.		
2.10.1	Short Point	Point	523.00
2.10.2	Medium Point	Point	855.00
2.10.3	Long Point	Point	1252.00
2.10.4	Extra Long Point I	Point	1736.00
2.10.5	Extra Long Point II	Point	2320.00
2.10.6	Extra Long Point III	Point	2796.00
2.11	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable including painting etc. as required.		
2.11.1	Short Point	Point	642.00
2.11.2	Medium Point	Point	1068.00
2.11.3	Long Point	Point	1490.00
2.11.4	Extra Long Point I	Point	2081.00
2.11.5	Extra Long Point II	Point	2743.00
2.11.6	Extra Long Point III	Point	3332.00
2.12	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in surface steel conduit along with modular type 32 Amp SPMCB "C" curve and 6 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
2.12.1	Short Point	Point	721.00
2.12.2	Medium Point	Point	1268.00
2.12.3	Long Point	Point	1831.00
2.12.4	Extra Long Point I	Point	2602.00
2.12.5	Extra Long Point II	Point	3465.00
2.12.6	Extra Long Point III	Point	4255.00
2.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface steel conduit including painting etc as required.		



2.13.1	3 X 1.5 sq. mm in 20mm conduit	Metre	128.00
2.13.2	3 X 2.5 sq. mm in 20mm conduit	Metre	149.00
2.13.3	6 X 2.5 sq. mm in 25mm conduit	Metre	226.00
2.13.4	9 X 2.5 sq. mm in 32mm conduit	Metre	327.00
2.13.5	12 X 2.5 sq. mm in 32mm conduit	Metre	384.00
2.13.6	3 X 4 sq. mm in 25mm conduit	Metre	195.00
2.13.7	3 X 6 sq. mm in 25mm conduit	Metre	237.00
2.13.8	3 X 10 sq. mm in 25mm conduit	Metre	337.00
2.13.9	3 X 16 sq. mm in 32mm conduit	Metre	513.00
2.13.10	2 X 25 sq. mm + 1 X 16 sq. mm in 32mm conduit	Metre	642.00
2.13.11	6 X 2.5 sq. mm in 25mm conduit	Metre	226.00
2.13.12	6 X 4 sq. mm in 32mm conduit	Metre	325.00
2.13.13	6 X 6 sq. mm in 32mm conduit	Metre	409.00
2.13.14	6 X 10 sq. mm in 40mm conduit	Metre	691.00
2.13.15	6 X 16 sq. mm in 50mm conduit	Metre	1044.00
2.13.16	4 X 25 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1295.00
2.13.17	4 X 35 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1571.00
2.14	Extra for point wiring in surface in steel conduit at height above 4 metre from floor level, for every 2 metres or part thereof .	Point	2.90
2.15	Supplying and fixing of following sizes steel conduit along with accessories in surface including painting complete as required.		
2.15.1	20 mm	Metre	82.00
2.15.2	25 mm	Metre	98.50
2.15.3	32 mm	Metre	140.00
2.15.4	40 mm	Metre	213.00
2.15.5	50 mm	Metre	293.00
3	WIRING IN CONCEALED PVC CONDUIT		
3.1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.		
3.1.1	Short Point	Point	236.00
3.1.2	Medium Point	Point	388.00
3.1.3	Long Point	Point	553.00
3.2	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.	Point	343.00
3.3	Extra for providing and fixing light plug point on board in concealed PVC conduit point wiring with piano type 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.etc. as required.	Point	95.00
3.4	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with piano type 6 amp switch and 3 pin 6 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		



3.4.1	Short Point	Point	339.00
3.4.2	Medium Point	Point	582.00
3.4.3	Long Point	Point	869.00
3.4.4	Extra Long Point I	Point	1266.00
3.4.5	Extra Long Point II	Point	1669.00
3.4.6	Extra Long Point III	Point	2049.00
3.5	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with piano type 16 amp switch and 6 pin 16 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
3.5.1	Short Point	Point	501.00
3.5.2	Medium Point	Point	846.00
3.5.3	Long Point	Point	1259.00
3.5.4	Extra Long Point I	Point	1750.00
3.5.5	Extra Long Point II	Point	2280.00
3.5.6	Extra Long Point III	Point	2814.00
3.6	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with 20amp 2 pole & earth, industrial type socket outlet, 32 amp "C" curve SP MCB, in sheet steel enclosure with metal plug top and chained metal cover for the socket out let, earthing the switch box and socket outlet with same size cable etc. as required.		
3.6.1	Short Point	Point	1266.00
3.6.2	Medium Point	Point	1732.00
3.6.3	Long Point	Point	2285.00
3.6.4	Extra Long Point I	Point	2957.00
3.6.5	Extra Long Point II	Point	3702.00
3.6.6	Extra Long Point III	Point	4435.00
3.7	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
3.7.1	Short Point	Point	278.00
3.7.2	Medium Point	Point	431.00
3.7.3	Long Point	Point	595.00
3.8	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
		Point	417.00
3.9	Extra for providing and fixing light plug point on board in concealed PVC conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.		
		Point	240.00



3.10	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
3.10.1	Short Point	Point	458.00
3.10.2	Medium Point	Point	701.00
3.10.3	Long Point	Point	988.00
3.10.4	Extra Long Point I	Point	1385.00
3.10.5	Extra Long Point II	Point	1788.00
3.10.6	Extra Long Point III	Point	2168.00
3.11	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
3.11.1	Short Point	Point	589.00
3.11.2	Medium Point	Point	934.00
3.11.3	Long Point	Point	1347.00
3.11.4	Extra Long Point I	Point	1838.00
3.11.5	Extra Long Point II	Point	2383.00
3.11.6	Extra Long Point III	Point	2915.00
3.12	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 32 Amp SPMCB "C" curve and 6 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
3.12.1	Short Point	Point	668.00
3.12.2	Medium Point	Point	1134.00
3.12.3	Long Point	Point	1688.00
3.12.4	Extra Long Point I	Point	2359.00
3.12.5	Extra Long Point II	Point	3105.00
3.12.6	Extra Long Point III	Point	3837.00
3.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit as required.		
3.13.1	3 X 1.5 sq. mm in 20mm conduit	Metre	83.50
3.13.2	3 X 2.5 sq. mm in 20mm conduit	Metre	104.00
3.13.3	6 X 2.5 sq. mm in 25mm conduit	Metre	172.00
3.13.4	9 X 2.5 sq. mm in 32mm conduit	Metre	249.00
3.13.5	12 X 2.5 sq. mm in 32mm conduit	Metre	306.00
3.13.6	3 X 4 sq. mm in 25mm conduit	Metre	141.00
3.13.7	3 X 6 sq. mm in 25mm conduit	Metre	183.00
3.13.8	3 X 10 sq. mm in 25mm conduit	Metre	283.00
3.13.9	3 X 16 sq. mm in 32mm conduit	Metre	434.00
3.13.10	2 X 25 sq. mm + 1 X 16 sq. mm in 32mm conduit	Metre	564.00
3.13.11	6 X 2.5 sq. mm in 25mm conduit	Metre	172.00
3.13.12	6 X 4 sq. mm in 32mm conduit	Metre	246.00
3.13.13	6 X 6 sq. mm in 32mm conduit	Metre	331.00



3.13.14	6 X 10 sq. mm in 40mm conduit	Metre	556.00
3.13.15	6 X 16 sq. mm in 50mm conduit	Metre	857.00
3.13.16	4 X 25 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1108.00
3.13.17	4 X 35 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1376.00
3.14	Extra cost for point wiring in concealed in PVC conduit at height above 4 meters from floor level, for every 2 metres or part thereof.	Point	5.50
3.15	Supplying and fixing of following sizes PVC conduit along with accessories in concealed complete as required.		
3.15.1	20 mm	Metre	40.00
3.15.2	25 mm	Metre	46.50
3.15.3	32 mm	Metre	66.00
3.15.4	40 mm	Metre	85.00
3.15.5	50 mm	Metre	117.00
3.16	Extra for providing modular starter in power point wiring instead of modular 32 amp SPMCB and 16 amps socket outlet as required.	Point	132.00
4	WIRING IN SURFACE PVC CONDUIT		
4.1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.		
4.1.1	Short Point	Point	213.00
4.1.2	Medium Point	Point	356.00
4.1.3	Long Point	Point	506.00
4.2	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.	Point	310.00
4.3	Extra for providing and fixing light plug point on board in surface PVC conduit point wiring with piano type 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.etc. as required.	Point	95.00
4.4	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with piano type 6 amp switch and 3 pin 6 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
4.4.1	Short Point	Point	316.00
4.4.2	Medium Point	Point	550.00
4.4.3	Long Point	Point	822.00
4.4.4	Extra Long Point I	Point	1163.00
4.4.5	Extra Long Point II	Point	1544.00
4.4.6	Extra Long Point III	Point	1901.00



4.5	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with piano type 16 amp switch and 6 pin 16 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
4.5.1	Short Point	Point	465.00
4.5.2	Medium Point	Point	781.00
4.5.3	Long Point	Point	1163.00
4.5.4	Extra Long Point I	Point	1637.00
4.5.5	Extra Long Point II	Point	2161.00
4.5.6	Extra Long Point III	Point	2573.00
4.6	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with 20amp 2 pole & earth, industrial type socket outlet, 32amp "C" curve SP MCB, in sheet steel enclosure with metal plug top and chained metal cover for the socket out let, earthing the switch box and socket outlet with same size cable etc. as required.		
4.6.1	Short Point	Point	1227.00
4.6.2	Medium Point	Point	1662.00
4.6.3	Long Point	Point	2150.00
4.6.4	Extra Long Point I	Point	2782.00
4.6.5	Extra Long Point II	Point	3482.00
4.6.6	Extra Long Point III	Point	4156.00
4.7	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
4.7.1	Short Point	Point	252.00
4.7.2	Medium Point	Point	394.00
4.7.3	Long Point	Point	518.00
4.8	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.		
		Point	368.00
4.9	Extra for providing and fixing light plug point on board in surface PVC conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.		
		Point	240.00
4.10	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
4.10.1	Short Point	Point	432.00
4.10.2	Medium Point	Point	664.00



4.10.3	Long Point	Point	932.00
4.10.4	Extra Long Point I	Point	1267.00
4.10.5	Extra Long Point II	Point	1645.00
4.10.6	Extra Long Point III	Point	1997.00
4.11	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
4.11.1	Short Point	Point	550.00
4.11.2	Medium Point	Point	864.00
4.11.3	Long Point	Point	1212.00
4.11.4	Extra Long Point I	Point	1664.00
4.11.5	Extra Long Point II	Point	2163.00
4.11.6	Extra Long Point III	Point	2636.00
4.12	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in surface PVC conduit along with modular type 32 Amp SPMCB "C" curve and 3 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.		
4.12.1	Short Point	Point	629.00
4.12.2	Medium Point	Point	1064.00
4.12.3	Long Point	Point	1552.00
4.12.4	Extra Long Point I	Point	2185.00
4.12.5	Extra Long Point II	Point	2885.00
4.12.6	Extra Long Point III	Point	3558.00
4.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface PVC conduit etc as required.		
4.13.1	3 X 1.5 sq. mm in 20mm conduit	Metre	74.00
4.13.2	3 X 2.5 sq. mm in 20mm conduit	Metre	95.00
4.13.3	6 X 2.5 sq. mm in 25mm conduit	Metre	161.00
4.13.4	9 X 2.5 sq. mm in 32mm conduit	Metre	236.00
4.13.5	12 X 2.5 sq. mm in 32mm conduit	Metre	293.00
4.13.6	3 X 4 sq. mm in 25mm conduit	Metre	130.00
4.13.7	3 X 6 sq. mm in 25mm conduit	Metre	172.00
4.13.8	3 X 10 sq. mm in 25mm conduit	Metre	272.00
4.13.9	3 X 16 sq. mm in 32mm conduit	Metre	421.00
4.13.10	2 X 25 sq. mm + 1 X 16 sq. mm in 32mm conduit	Metre	551.00
4.13.11	6 X 2.5 sq. mm in 25mm conduit	Metre	161.00
4.13.12	6 X 4 sq. mm in 32mm conduit	Metre	235.00
4.13.13	6 X 6 sq. mm in 32mm conduit	Metre	319.00
4.13.14	6 X 10 sq. mm in 40mm conduit	Metre	542.00
4.13.15	6 X 16 sq. mm in 50mm conduit	Metre	838.00
4.13.16	4 X 25 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1085.00
4.13.17	4 X 35 sq. mm + 2 X 16 sq. mm in 50mm conduit	Metre	1365.00
4.14	Extra cost for point wiring in surface in PVC conduit at height above 4 meters from floor level, for every 2 metres or part thereof.	Point	3.30



4.15	Supplying and fixing of following sizes PVC conduit along with accessories in surface complete as required.		
4.15.1	20 mm	Metre	30.00
4.15.2	25 mm	Metre	36.50
4.15.3	32 mm	Metre	53.00
4.15.4	40 mm	Metre	69.50
4.15.5	50 mm	Metre	97.00
4.16	Supplying and fixing of following sizes PVC casing capping along with accessories in surface complete as required.		
4.16.1	20x12 mm	Metre	29.00
4.16.2	25x16 mm	Metre	33.00
4.16.3	32x16 mm	Metre	36.50
5	WIRING IN EXISTING STEEL/PVC CONDUIT		
5.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point in existing surface / concealed, steel/ PVC conduit with 1.5 sq. mm FR PVC insulated copper conductor single core cable and providing and fixing 5A piano type switch, phenolic laminated sheet, earthing the point with same size cable etc. as required.		
5.1.1	Short Point	Point	129.00
5.1.2	Medium Point	Point	259.00
5.1.3	Long Point	Point	385.00
5.2	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in surface/ concealed, steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.	Point	222.00
5.3	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated copper conductor cable in existing surface / concealed, steel/ PVC conduit and providing and fixing piano type 6 amp switch and 3 pin 6 amps socket outlet, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
5.3.1	Short Point	Point	211.00
5.3.2	Medium Point	Point	426.00
5.3.3	Long Point	Point	669.00
5.3.4	Extra Long Point I	Point	965.00
5.3.5	Extra Long Point II	Point	1289.00
5.3.6	Extra Long Point III	Point	1612.00
5.4	Wiring for power plug point with 2x4 sq mm FR PVC insulated copper conductor cable in existing surface/ concealed, steel/ PVC conduit and providing and fixing piano type 16 amp switch and 6 pin 16 amps socket outlet, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.		
5.4.1	Short Point	Point	341.00
5.4.2	Medium Point	Point	634.00
5.4.3	Long Point	Point	966.00
5.4.4	Extra Long Point I	Point	1378.00
5.4.5	Extra Long Point II	Point	1830.00



5.4.6	Extra Long Point III	Point	2282.00
5.5	Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in existing surface/ concealed, steel/ PVC conduit, earthing the existing industrial socket outlet with same size cable etc. as required.		
5.5.1	Short Point	Point	274.00
5.5.2	Medium Point	Point	687.00
5.5.3	Long Point	Point	1160.00
5.5.4	Extra Long Point I	Point	1753.00
5.5.5	Extra Long Point II	Point	2405.00
5.5.6	Extra Long Point III	Point	3058.00
5.6	Wiring for light point/ exhaust fan point/ call bell point with 1.5 sq. mm FR PVC insulated copper conductor single core cable in existing surface / concealed, steel/ PVC conduit and providing and fixing 5 amp modular type switch, modular base and cover plate and earthing the point with same cable etc. as required.		
5.6.1	Short Point	Point	174.00
5.6.2	Medium Point	Point	302.00
5.6.3	Long Point	Point	429.00
5.7	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in existing surface/ concealed, steel/ PVC conduit and providing and fixing 5 amp modular type switch, modular base and cover plate and earthing the point with same cable etc. as required.	Point	288.00
5.8	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated copper conductor cable in existing surface / concealed, steel/ PVC conduit and providing and fixing modular type 6 Amp switch and 3 pin 6 amps socket outlet, modular base and cover plate, earthing the switch box and socket outlet with same size cable etc. as required.		
5.8.1	Short Point	Point	318.00
5.8.2	Medium Point	Point	533.00
5.8.3	Long Point	Point	776.00
5.8.4	Extra Long Point I	Point	1072.00
5.8.5	Extra Long Point II	Point	1396.00
5.8.6	Extra Long Point III	Point	1719.00
5.9	Wiring for power plug point with 2x4 sq mm FR PVC insulated copper conductor cable in existing surface / concealed, steel/ PVC conduit and providing and fixing modular type 16 Amp switch and 6 pin 16 amps socket outlet, modular base and cover plate, earthing the switch box and socket outlet with same size cable etc. as required.		
5.9.1	Short Point	Point	430.00
5.9.2	Medium Point	Point	722.00
5.9.3	Long Point	Point	1055.00
5.9.4	Extra Long Point I	Point	1466.00
5.9.5	Extra Long Point II	Point	1918.00
5.9.6	Extra Long Point III	Point	2370.00



5.10	Wiring for power plug point with 2x6 sq mm FR PVC insulated copper conductor cable in existing surface / concealed steel/ PVC conduit and providing and fixing modular type 32 Amp SP MCB "C" curve and 3 pin 20 amps socket outlet, modular base and cover plate, earthing the switch box and socket outlet with same size cable etc. as required.		
5.10.1	Short Point	Point	509.00
5.10.2	Medium Point	Point	922.00
5.10.3	Long Point	Point	1395.00
5.10.4	Extra Long Point I	Point	1988.00
5.10.5	Extra Long Point II	Point	2640.00
5.10.6	Extra Long Point III	Point	3293.00
5.11	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ concealed, steel/ PVC conduit/ PVC casing capping as required.		
5.11.1	1 x 1.5 sq. mm	Metre	22.00
5.11.2	2 x 1.5 sq. mm	Metre	33.00
5.11.3	3 x 1.5 sq. mm	Metre	44.50
5.11.4	4 x 1.5 sq. mm	Metre	55.50
5.11.5	5 x 1.5 sq. mm	Metre	67.00
5.11.6	6 x 1.5 sq. mm	Metre	78.50
5.11.7	7 x 1.5 sq. mm	Metre	89.50
5.11.8	8 x 1.5 sq. mm	Metre	101.00
5.11.9	9 x 1.5 sq. mm	Metre	113.00
5.11.10	10 x 1.5 sq. mm	Metre	124.00
5.11.11	2 x 2.5 sq. mm	Metre	46.50
5.11.12	3 x 2.5 sq. mm	Metre	64.50
5.11.13	4 x 2.5 sq. mm	Metre	82.50
5.11.14	5 x 2.5 sq. mm	Metre	101.00
5.11.15	6 x 2.5 sq. mm	Metre	119.00
5.11.16	7 x 2.5 sq. mm	Metre	137.00
5.11.17	8 x 2.5 sq. mm	Metre	155.00
5.11.18	9 x 2.5 sq. mm	Metre	173.00
5.11.19	10 x 2.5 sq. mm	Metre	192.00
5.11.20	3 x 4 sq. mm	Metre	91.50
5.11.21	4 x 4 sq. mm	Metre	118.00
5.11.22	5 x 4 sq. mm	Metre	144.00
5.11.23	6 x 4 sq. mm	Metre	172.00
5.11.24	3 x 6 sq. mm	Metre	132.00
5.11.25	4 x 6 sq. mm	Metre	172.00
5.11.26	5 x 6 sq. mm	Metre	213.00
5.11.27	6 x 6 sq. mm	Metre	253.00
5.11.28	3 x 10 sq. mm	Metre	231.00
5.11.29	4 x 10 sq. mm	Metre	303.00
5.11.30	5 x 10 sq. mm	Metre	375.00
5.11.31	6 x 10 sq. mm	Metre	448.00
5.11.32	3 x 16 sq. mm	Metre	358.00
5.11.33	5 x 16 sq. mm	Metre	586.00
5.11.34	2 x 25 sq. mm + 1 x 16 sq. mm	Metre	480.00
5.11.35	3 x 25 sq. mm + 2 x 16 sq. mm	Metre	768.00
5.11.36	3 x 35 sq. mm + 2 x 16 sq. mm	Metre	965.00



5.12	Supplying and drawing following pair 0.5 mm FR PVC insulated copper conductor, unarmored telephone cable in the existing surface/ concealed steel/ PVC conduit as required.		
5.12.1	1 Pair	Metre	9.10
5.12.2	2 Pair	Metre	12.50
5.12.3	4 Pair	Metre	19.50
5.13	Supplying and drawing following grade co-axial TV cable PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed steel/ PVC conduit as required.		
5.13.1	RG-6 grade	Metre	22.00
5.13.2	RG-11 grade	Metre	44.50
5.14	Supplying and drawing UTP 4 pair Cat 6 LAN cable in existing surface/ concealed steel/ PVC conduit as required.	metre	25.50
6	METAL, WOODEN AND PVC BOXES		
6.1	Supplying and fixing metal box of following sizes (nominal size) in recess with suitable size phenolic laminated sheet cover in front including painting etc as required.		
6.1.1	75 mm X 75 mm X 60 mm deep	Each	77.50
6.1.2	100 mm X 100 mm X 60 mm deep	Each	93.50
6.1.3	150 mm X 75 mm X 60 mm deep	Each	99.00
6.1.4	150 mm X 150 mm X 60 mm deep	Each	133.00
6.1.5	180 mm X 100 mm X 60 mm deep	Each	121.00
6.1.6	200 mm X 125 mm X 60 mm deep	Each	147.00
6.1.7	200 mm X 150 mm X 60 mm deep	Each	162.00
6.1.8	200 mm X 250 mm X 60 mm deep	Each	216.00
6.1.9	200 mm X 300 mm X 60 mm deep	Each	224.00
6.1.10	250 mm X 300 mm X 60 mm deep	Each	282.00
6.1.11	325 mm X 300 mm X 60 mm deep	Each	311.00
6.1.12	375 mm X 300 mm X 60 mm deep	Each	330.00
6.2	Supplying and fixing of following sizes wooden switch box made of wooden plank side wall and base including 3mm thick phenolic laminated sheet cover on surface complete as required		
6.2.1	100mmX100mm	Each	55.00
6.2.2	150mmX75mm	Each	58.00
6.2.3	150mmX150mm	Each	76.50
6.2.4	180mmX100mm	Each	69.50
6.2.5	200mmX150mm	Each	88.50
6.2.6	250mmX200mm	Each	94.50
6.2.7	300mmX350mm	Each	116.00
6.2.8	300mmX400mm	Each	116.00
6.3	Supplying and fixing of following sizes PVC switch box suitable for modular switches with modular base and cover plates on surface complete as required		
6.3.1	94 mm X 94 mm (1/2 Module)	Each	111.00
6.3.2	118mmX94mm (3 Module)	Each	123.00
6.3.3	150mmX94mm (4 Module)	Each	133.00
6.3.4	205mmX94mm (6 Module)	Each	163.00
6.4	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.		
6.4.1	75mmX75mm (1/2 Module)	Each	88.00



6.4.2	100mmX75mm (3 Module)	Each	111.00
6.4.3	125mmX75mm (4 Module)	Each	125.00
6.4.4	200mmX75mm (6 Module)	Each	161.00
6.4.5	125mmX125mm (8 Module)	Each	200.00
6.4.6	200mmX150mm (12 Module)	Each	273.00
6.4.7	16 Module	Each	373.00
6.5	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.		
6.5.1	1 Module	Each	43.50
6.5.2	2 Module	Each	43.50
6.5.3	3 Module	Each	54.00
6.5.4	4 Module	Each	59.50
6.5.5	6 Module	Each	72.50
6.5.6	8 Module	Each	93.00
6.5.7	12 Module	Each	137.00
6.5.8	16 Module	Each	191.00
7	SWITCHES & ACCESSORIES		
7.1	Supplying and fixing following piano type switch, socket, other accessories on the existing switch box/ cover including connections etc. as required.		
7.1.1	5/6 amps one way switch	Each	23.00
7.1.2	5/6 amps two way switch	Each	28.00
7.1.3	Bell push	Each	28.00
7.1.4	15/16 amps switch	Each	69.50
7.1.5	3 pin 5/6 amp socket outlet	Each	36.00
7.1.6	6 pin 15/16 amp socket outlet	Each	69.50
7.1.7	Plug Top 3 pin 5/6 Amps (For light plug).	Each	40.50
7.1.8	Plug Top 3 pin 16 Amps (For power plug).	Each	54.00
7.1.9	Telephone socket outlet	Each	53.50
7.1.10	TV antenna socket outlet	Each	33.00
7.1.11	Computer outlet jack	Each	49.00
7.1.12	Fan regulator Electronic, step type moving all round	Each	178.00
7.1.13	Ceiling rose 3 pin 5 amps	Each	28.00
7.1.14	Pendent holder	Each	38.00
7.1.15	Batten/ angle holder	Each	37.50
7.2	Providing and fixing composite board for computer points having piano type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch and 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable M.S box, 3mm thick phenolic laminated sheet cover including painting etc. as required.	Each	553.00
7.3	Providing and fixing composite board for computer points having piano type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch and 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable size wooden box, 3mm thick phenolic laminated sheet cover including painting etc. as required.	Each	412.00
7.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
7.4.1	5/6 amps one way switch	Each	68.00
7.4.2	5/6 amps two way switch	Each	80.50
7.4.3	Bell push	Each	81.50
7.4.4	15/16 amp switch	Each	96.00



7.4.5	3 pin 5/6 amp socket outlet	Each	87.50
7.4.6	6 pin 15/16 amp socket outlet	Each	126.00
7.4.7	6 pin 20 amp socket outlet	Each	132.00
7.4.8	Fan regulator (two module size) electronic stepped type moving all rounds	Each	203.00
7.4.9	Plug Top (Deluxe type) 3 pin 5/6 Amps (For light plug).	Each	63.00
7.4.10	Plug Top (Deluxe type) 3 pin 16 Amps (For power plug).	Each	85.00
7.4.11	Plug Top (Deluxe type) 3 pin 25 Amps (For power plug).	Each	103.00
7.4.12	Telephone socket outlet	Each	71.50
7.4.13	T.V. antenna socket outlet	Each	74.50
7.4.14	Computer Outlet Jack	Each	224.00
7.4.15	25/32 amp A.C. Starter switch	Each	233.00
7.4.16	SP MCB 25 amp	Each	233.00
7.4.17	Ceiling rose 3 pin 5 amp	Each	36.00
7.4.18	Pendent holder	Each	41.50
7.4.19	Batten/ angle holder	Each	41.00
7.4.20	Blanking plate	Each	24.00
7.5	Providing and fixing 16/32 amp DP surface switch with neon on suitable size wooden box including connection, testing etc. complete.	Each	139.00
7.6	Providing and fixing composite unit for computer points having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as required.	Each	879.00
7.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as required.		
7.7.1	Ordinary (simple)	Each	67.50
7.7.2	Deluxe	Each	180.00
7.8	Providing and fixing following size FR PVC insulated, PVC sheathed, flexible copper conductor cable on the floor/ wall, or side of the table/ door etc. as required.		
7.8.1	0.5 sq. mm two core	Metre	18.00
7.8.2	1.0 sq. mm two core	Metre	25.50
7.8.3	1.0 sq. mm three core	Metre	34.00
7.9	Providing and fixing round/ hexagonal fan box (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as required.	Each	42.50
7.10	Providing and fixing fan hook made of 12mm dia steel bar in existing ceiling slab including cutting of roof, fixing hook above reinforcement on both side, repairing with cement mortar 1:2 (1 cement : 2 sand) etc. as required.	Each	102.00
7.11	Providing and fixing fan clamp made of 3mm thick MS flat on existing iron trusses/ girder including necessary bolts and nuts etc. as required.	Each	42.50
8	FANS, LUMINARIES AND LAMPS		



8.1	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing etc. complete as required.		
8.1.1	1050 mm sweep	Each	1503.00
8.1.2	1200 mm sweep	Each	1503.00
8.1.3	1400 mm sweep	Each	1637.00
8.2	Supplying and fixing following sizes of down rod of 15/20mm dia M.S. pipe of thickness 1.6mm to ceiling fan including painting with matching colour etc. as required.		
8.2.1	45 cm long	Each	27.00
8.2.2	60 cm long	Each	37.00
8.2.3	90 cm long	Each	65.00
8.2.4	120 cm long	Each	87.50
8.2.5	300 cm long	Each	161.00
8.3	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the fan box etc. as required. (If provided at the time of installation of ceiling fan)	Each	45.50
8.4	Supplying and fixing of wall/ cabin fan of 400mm sweep including connection etc. as required.	Each	2282.00
8.5	Supplying and fixing of resistance type ceiling fan regulator, in/ on existing switch box including connection, earthing etc. as required.	Each	118.00
8.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including earthing etc. complete as required.		
8.6.1	300 mm sweep	Each	2558.00
8.6.2	380 mm sweep	Each	3079.00
8.6.3	450 mm sweep	Each	4228.00
8.7	Supplying, installation, testing and commissioning of 250/ 300 mm sweep 1400 rpm medium duty (continuous running) exhaust fan in existing opening in wall including earthing etc. complete as required.	Each	1428.00
8.8	Supplying, installation, testing and commissioning of following sizes fancy exhaust fan having built in lovers in existing opening in wall including earthing etc. complete as required.		
8.8.1	225 mm sweep	Each	1229.00
8.8.2	300 mm sweep	Each	1319.00
8.9	Supplying, installation, testing and commissioning of following surface/ concealed type fluorescent fitting (luminaries) complete with electronic ballast/ copper ballast glow type starter but without fluorescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required.		
8.9.1	4' x 40 W single patti type	Each	272.00
8.9.2	4' x 40 W single box type	Each	724.00
8.9.3	4' x 40 W twin box type	Each	1158.00
8.9.4	4' x 40 W single box type with decorative end caps.	Each	1868.00
8.9.5	4' x 40 W twin mirror optics type	Each	2290.00



8.10	Supplying, installation, testing and commissioning of following concealed type fluorescent fitting (luminaries) complete with electronic ballast/ copper ballast glow type starter (if required) but without fluorescent lamp, in false ceiling hanged with 2 Nos G.I chain to ceiling/ truss frame earthing the fitting etc. as required.		
8.10.1	4' x 40 W single mirror optics type	Each	876.00
8.10.2	4' x 40 W twin mirror optics type	Each	2507.00
8.11	Supplying, installation, testing and commissioning of following T-5 fluorescent fitting (luminaries) complete with electronic ballast but without fluorescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required.		
8.11.1	Single box type with decorative end caps	Each	635.00
8.11.2	Single mirror optic surface mounting type	Each	2173.00
8.11.3	Double mirror optic surface mounting type	Each	2464.00
8.11.4	Double mirror optic concealed mounting type	Each	2859.00
8.12	Supplying, fixing, testing and commissioning of following 230/250 volts fluorescent lamp (tube) in existing lighting luminaries as required.		
8.12.1	4' x 36/40 watt	Each	51.00
8.12.2	4' x 28 watt (T-5)	Each	143.00
8.12.3	2' x 20 watt	Each	47.50
8.13	Extra for installation of all type of fluorescent fittings (luminaries) hanging from ceiling (instead of on surface) complete with wiring etc. as required. (these rate are to be paid over rate of installation on direct on ceiling surface).		
8.13.1	Hanging with 2 Nos ball and socket arrangement with 30cm long 1.6mm thick 20mm dia steel conduit down rod wiring in down rod with 3x1.5 sqmm FR PVC insulated copper conductor cable.	Each	186.00
8.13.2	Hanging with 2 Nos metallic chain of suitable size and upto 60 cm length and wiring the with twin twisted PVC insulated copper conductor cable.	Each	82.00
8.14	Supplying, installation, testing and commissioning of following mirror optics surface type CFL fitting (luminaries) complete with electronic ballast/ copper ballast, but without CFL lamp, on ceiling/ wall surface, earthing the fitting etc. as required.		
8.14.1	2x 9/11/13 W	Each	1205.00
8.14.2	2x18 W	Each	1210.00
8.14.3	2x36 W	Each	2547.00
8.14.4	3x36 W	Each	3503.00
8.15	Supplying, installation, testing and commissioning of following mirror optics concealed type CFL fitting (luminaries) complete with electronic ballast/ copper ballast but without CFL lamp, in false ceiling, earthing the fitting etc. as required.		
8.15.1	2x 9/11/13 W	Each	1186.00
8.15.2	2x18 W	Each	1207.00
8.15.3	2x36 W	Each	2433.00
8.15.4	3x36 W	Each	3597.00



8.16	Supplying, installation, testing and commissioning of following CFL down lighter luminaries with mirror reflector, but without CFL lamp, on surface/ recess in false ceiling including connection, testing and commissioning as required.		
8.16.1	For 1x13/18 watt CFL with cover	Each	967.00
8.16.2	For 2x13/18 watt CFL with cover	Each	1217.00
8.17	Supplying, fixing and testing of approved make bulk head luminaries consisting of pressure die cast Alu. Housing, lamp holder, prismatic glass cover, rubber gasket and wire guard deluxe type including fixing on wall as required, with necessary material complete.	Each	430.00
8.18	Supplying, fixing, testing and commissioning of following CFL (Built in choke type) in existing lighting luminaries as required.		
8.18.1	5 Watt	Each	160.00
8.18.2	9 Watt	Each	177.00
8.18.3	11 Watt	Each	194.00
8.18.4	15 Watt	Each	183.00
8.18.5	20 Watt	Each	233.00
8.18.6	23 Watt	Each	267.00
8.18.7	26 Watt	Each	289.00
8.18.8	35 Watt	Each	374.00
8.18.9	45 Watt	Each	615.00
8.18.10	65 Watt	Each	794.00
8.18.11	85 Watt	Each	907.00
8.18.12	85 Watt spiral	Each	963.00
8.19	Supplying, fixing, testing and commissioning of following CFL without ballast in existing CFL lighting luminaries as required.		
8.19.1	9 W CFL (without choke)	Each	93.00
8.19.2	11 W CFL (without choke)	Each	98.50
8.19.3	13 W CFL (without choke)	Each	131.00
8.19.4	18 W CFL (without choke)	Each	165.00
8.19.5	36W CFL (without choke)	Each	176.00
8.20	Supplying, installation, testing and commissioning of following LED fitting (luminaries) down lighters in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.20.1	6 Watt	Each	1720.00
8.20.2	9 Watt	Each	1989.00
8.20.3	12 Watt	Each	2436.00
8.20.4	15/16 Watt	Each	2615.00
8.20.5	18/20 Watt	Each	3332.00
8.21	Supplying, installation, testing and commissioning of following sleek LED panel down lighters (luminaries) in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.21.1	24 watt, size 300 x 300mm	Each	3985.00
8.21.2	36 watt, size 600 x 600mm	Each	8199.00
8.21.3	45 watt, size 1200 x 300mm	Each	8544.00



8.22	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.22.1	0.5 Watt	Each	111.00
8.22.2	5 Watt	Each	648.00
8.22.3	7 Watt	Each	781.00
8.22.4	9 Watt	Each	973.00
8.22.5	12 Watt	Each	1420.00
8.22.6	15 Watt	Each	1804.00
8.23	Supplying, installation, testing and commissioning of following 230/250 volts LED Post Top Lantern fitting with perplex cover, electronic driver, heat sink, capacitor and all other accessories on existing gate column/ pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.23.1	20 watt	Each	9572.00
8.24	Supplying, installation, testing and commissioning of following 230/250 volts CFL Post Top Lantern fitting with perplex cover, electronic ballast and all other accessories on existing gate column/ pole bracket complete as required.		
8.24.1	1x18 watt	Each	1951.00
8.25	Supplying, installation, testing and commissioning of following 230/250 volts LED BOLLARD fitting with electronic driver, heat sink, capacitor and all other accessories on existing foundation/ pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.25.1	6 watt	Each	5360.00
8.25.2	9 watt	Each	5792.00
8.26	Supplying, installation, testing and commissioning of following 230/250 volts metal halide wide beam flood light luminaries with weather proof gear box, igniter, capacitor with IP 66 protection on wall surface/ building parapet/ pole bracket complete but without lamp as required.		
8.26.1	1x70 watt	Each	4026.00
8.26.2	1x150 watt	Each	4237.00
8.26.3	1x250 watt	Each	7086.00
8.26.4	1x400 watt	Each	8036.00
8.26.5	2x250 watt	Each	8704.00
8.26.6	2x400 watt	Each	10428.00
8.27	Supplying, installation, testing and commissioning of following 230/250 volts HPSV wide beam flood light luminaries with weather proof gear box, igniter, capacitor with IP 66 protection on wall surface/ building parapet/ pole bracket complete but without lamp as required.		
8.27.1	1x70 watt	Each	4003.00
8.27.2	1x150 watt	Each	5023.00
8.27.3	1x250 watt	Each	7084.00
8.27.4	1x400 watt	Each	8026.00



8.28	Supplying, installation, testing and commissioning of 230/250 volts 1x40 watt fluorescent street light fitting with cooper ballast, starter, capacitor, perplex cover on pole bracket complete but without lamp as required.	Each	1326.00
8.29	Supplying, installation, testing and commissioning of following 230/250 volts CFL street light fitting with perplex cover on pole bracket complete but without lamp as required.		
8.29.1	65 watt	Each	1326.00
8.29.2	85 watt	Each	1407.00
8.30	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 5 KV surge protection on pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer.		
8.30.1	25-30 watt	Each	4890.00
8.30.2	40-45 watt	Each	9534.00
8.30.3	60 watt	Each	10115.00
8.30.4	90 watt	Each	18616.00
8.30.5	120 watt	Each	20579.00
8.30.6	135 watt	Each	22823.00
8.31	Supplying, installation, testing and commissioning of following 230/250 volts metal halide street light fitting with gear box, igniter, capacitor with IP 66 protection on pole bracket complete but without lamp as required.		
8.31.1	70 watt	Each	3608.00
8.31.2	150 watt	Each	4375.00
8.31.3	250 watt	Each	5449.00
8.32	Supplying, installation, testing and commissioning of following 230/ 250 volts HPSV street light fitting with gear box, igniter, capacitor with IP 66 protection on pole bracket complete but without lamp as required.		
8.32.1	70 watt	Each	3243.00
8.32.2	150 watt	Each	4347.00
8.32.3	250 watt	Each	5822.00
8.33	Supplying installation, testing and commissioning of following watts INDUCTION STREET LIGHT fitting with single piece die cast aluminium housing full toughened glass, luminary fitting confirming to IP 65 with control gear and Induction lamp on existing pole/ bracket including connection etc complete as required		
8.33.1	40 watt	Each	7598.00
8.33.2	80 watt	Each	12036.00
8.33.3	100 watt	Each	12740.00
8.33.4	120 watt	Each	13795.00
8.33.5	150 watt	Each	14147.00
8.34	Supplying, fixing, testing and commissioning of following 230/250 volts metal halide lamp in existing lighting luminaries fixed on pole/ wall/ roof etc as required.		
8.34.1	70 watt (T)	Each	1021.00



8.34.2	150 watt (T)	Each	1075.00
8.34.3	250 watt (T)	Each	1043.00
8.34.4	400 watt (BT)	Each	1043.00
8.34.5	70 Watt (E)	Each	893.00
8.34.6	150 Watt (E)	Each	947.00
8.34.7	250 Watt (E)	Each	1138.00
8.34.8	400 watt (E)	Each	1138.00
8.34.9	70 Watt double ended	Each	669.00
8.34.10	150 watt double ended	Each	776.00
8.35	Supplying, fixing, testing and commissioning of following 230/250 volts HPSV lamp tubular/elliptical in existing lighting luminaries on pole/ wall/ roof etc as required.		
8.35.1	70 watt (E)	Each	435.00
8.35.2	150 watt (E)	Each	584.00
8.35.3	250 watt (E)	Each	638.00
8.35.4	400 watt (E)	Each	744.00
8.35.5	70 Watt (T)	Each	478.00
8.35.6	150 Watt (T)	Each	606.00
8.35.7	250 Watt (T)	Each	669.00
8.35.8	400 Watt (T)	Each	776.00
8.35.9	70 Watt (T) plus	Each	590.00
8.35.10	150 Watt (T) plus	Each	814.00
8.35.11	250 Watt (T) plus	Each	977.00
8.35.12	400 Watt (T) plus	Each	1033.00
8.36	Supplying, fixing, testing and commissioning of approved make following 230/250 volts electronic ballast in existing luminaries at all locations as required.		
8.36.1	For 36/40 watt T8 flu. Fitting	Each	253.00
8.36.2	For 28 watt T5 flu. Fitting	Each	431.00
8.36.3	For 26 watt CFL Fitting	Each	558.00
8.36.4	For 36 watt CFL Fitting	Each	558.00
8.37	Supplying, fixing, testing and commissioning of glow type starter suitable for 36/40 watt T8 230/250 volts flu. lamp in existing luminaries at all locations as required.		
		Each	23.00
8.38	Supplying, fixing, testing and commissioning of approved make following 230/250 volts polyester filled copper wound ballast in existing luminaries at all locations as required.		
8.38.1	For 36/40 watt T8 flu. Fitting.	Each	227.00
8.38.2	For 70 watt HPSV/ Metal halide fitting	Each	921.00
8.38.3	For 150 watt HPSV/ Metal halide fitting	Each	1343.00
8.38.4	For 250 watt HPSV/ Metal halide fitting	Each	2012.00
8.38.5	For 400 watt HPSV/ Metal halide fitting	Each	2884.00
8.39	Supplying, fixing, testing and commissioning of approved make following 230/250 volts electronic ballast in existing luminaries at all locations as required.		
8.39.1	For 70 watt HPSV/ Metal halide fitting	Each	753.00
8.39.2	For 150 watt HPSV/ Metal halide fitting	Each	1168.00
8.39.3	For 250 watt HPSV/ Metal halide fitting	Each	1429.00
8.39.4	For 400 watt HPSV/ Metal halide fitting	Each	2046.00



8.40	Supplying, fixing, testing and commissioning of following 230/250 volts igniters in existing luminaries at all locations as required.		
8.40.1	For 70-400 watt integral luminaries	Each	297.00
8.40.2	For 70-400 watt non integral luminaries	Each	237.00
8.41	Supplying, fixing, testing and commissioning of following 230/250 volts capacitors in existing ceiling fans/ exhaust fan at all locations as required.		
8.41.1	2.0 MFD	Each	89.50
8.41.2	2.5 MFD	Each	95.00
8.41.3	3.15 MFD	Each	98.50
8.41.4	4 MFD	Each	104.00
8.42	Supplying, fixing, testing and commissioning of following 230/250 volts capacitors for single phase motor at all locations as required.		
8.42.1	6 MFD	Each	108.00
8.42.2	8 MFD	Each	114.00
8.42.3	10 MFD	Each	122.00
8.42.4	12 MFD	Each	129.00
8.42.5	15 MFD	Each	132.00
8.42.6	20 MFD	Each	163.00
8.42.7	25 MFD	Each	188.00
8.42.8	30 MFD	Each	202.00
8.43	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing etc. complete as required.	Each	66.50
8.44	Installation, testing and commissioning of wall/ cabin fan, etc. complete as required.	Each	48.50
8.45	Installation of following size exhaust fan in the existing opening including connection, testing, commissioning etc. as required.		
8.45.1	Upto 300 mm sweep	Each	150.00
8.45.2	380 mm sweep	Each	150.00
8.45.3	450 mm sweep	Each	173.00
8.46	Extra for fixing the louvers/ shutters complete with frame for exhaust fan of all sizes.	Each	93.50
8.47	Erection of all type of GLS lamps/ CFL fitting on wall /ceiling of all sizes and all shapes suitable upto two lamps per fitting, complete with all accessories including connection etc. as required.	Each	30.00
8.48	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.		
8.48.1	Directly on ceiling/ wall	Each	52.00
8.48.2	Hanging with 2 Nos ball and socket arrangement with 30cm long 1.6mm thick 20mm dia steel conduit down rod wiring in down rod with 3x1.5 sqmm FR PVC insulated copper conductor cable.	Each	185.00
8.48.3	Hanging with 2 Nos metallic chain of suitable size and upto 60 cm length and wiring the with twin twisted PVC insulated copper conductor cable.	Each	124.00



8.49	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length wiring with 2 X 1.5 sq. mm FR PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	29.00
8.50	Installation, testing and commissioning of all types of street light fittings with all accessories and lamps on street light bracket fixed on wall/ pole, including connection with PVC insulated, copper conductor, single core cable upto 2 metre length, earthing etc. as required.	Each	77.00
8.51	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	Each	9.50
8.52	Extra cost for installing the ceiling fan/ exhaust fan/ fluorescent fittings beyond 4 metres height from floor level, for every 2 metres or part thereof.	Each	6.70
8.53	Providing and fixing wooden board of suitable size for energy meter etc complete as required.	Each	117.00
9	MAIN METAL BOARD, BBC, IC		
9.1	Supplying and fixing wall/ floor mounted metal board of welded construction, fabricated with minimum 50mmX 50mm X 6mm angle iron frame work, with horizontal and vertical intermediate members of suitable angle/flat iron for mounting of switch gears including painting etc. as required.	sqm	2878.00
9.2	Supplying and fixing wall mounted metal board of welded construction, fabricated with minimum 35 mm X 35 mm X 6 mm angle iron frame work, with 25 mm X 6 mm flat iron as intermediate members including painting etc. as required.	sqm	2730.00
9.3	Supplying and fixing wall mounted metal board of welded construction, fabricated with minimum 25 mm X25 mm X 3 mm angle iron frame work, with 20 mm X 3 mm flat iron as intermediate members including painting etc. as required.	sqm	1488.00
9.4	Supplying and fixing wall mounted metal board of welded construction, fabricated with minimum 25 mm X 4 mm flat iron frame work, and intermediate members of the same size including painting etc. as required.	sqm	1399.00
9.5	Supplying and fixing metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 2 strip aluminium alloy or wrought aluminium busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.		
9.5.1	100 amps x 300mm long	Each	858.00
9.5.2	100 amps x 450mm long	Each	1232.00
9.6	Supplying and fixing metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip aluminium alloy or wrought aluminium busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.		
9.6.1	100 amps x 300mm long	Each	1231.00



9.6.2	100 amps x 450mm long	Each	1816.00
9.6.3	100 amps x 600mm long	Each	2168.00
9.6.4	200 amps x 300mm long	Each	1428.00
9.6.5	200 amps x 450mm long	Each	2090.00
9.6.6	200 amps x 600mm long	Each	2518.00
9.6.7	200 amps x 900mm long	Each	3377.00
9.6.8	300 amps x 450mm long	Each	2563.00
9.6.9	300 amps x 600mm long	Each	3128.00
9.6.10	300 amps x 900mm long	Each	4492.00
9.6.11	300 amps x 1200mm long	Each	5158.00
9.6.12	400 amps x 600mm long	Each	3295.00
9.6.13	400 amps x 900mm long	Each	4508.00
9.6.14	400 amps x 1200mm long	Each	5491.00
9.6.15	400 amps x 1500mm long	Each	6522.00
9.6.16	500 amps x 600mm long	Each	4163.00
9.6.17	500 amps x 900mm long	Each	5770.00
9.6.18	500 amps x 1200mm long	Each	7376.00
9.6.19	500 amps x 1500mm long	Each	9216.00
9.7	Supplying and fixing metal clad busbar chamber with 2 strip copper busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.		
9.7.1	100 amps x 300mm long	Each	1065.00
9.7.2	100 amps x 450mm long	Each	1543.00
9.8	Supplying and fixing metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip copper busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.		
9.8.1	100 amps x 300mm long	Each	1646.00
9.8.2	100 amps x 450mm long	Each	2438.00
9.8.3	100 amps x 600mm long	Each	2997.00
9.8.4	200 amps x 300mm long	Each	2389.00
9.8.5	200 amps x 450mm long	Each	3531.00
9.8.6	200 amps x 600mm long	Each	4441.00
9.8.7	200 amps x 900mm long	Each	6260.00
9.8.8	300 amps x 450mm long	Each	4844.00
9.8.9	300 amps x 600mm long	Each	6170.00
9.8.10	300 amps x 900mm long	Each	9054.00
9.8.11	300 amps x 1200mm long	Each	11242.00
9.8.12	400 amps x 600mm long	Each	7138.00
9.8.13	400 amps x 900mm long	Each	10275.00
9.8.14	400 amps x 1200mm long	Each	13178.00
9.8.15	400 amps x 1500mm long	Each	16547.00
9.8.16	500 amps x 600mm long	Each	8476.00
9.8.17	500 amps x 900mm long	Each	12239.00
9.8.18	500 amps x 1200mm long	Each	16004.00
9.8.19	500 amps x 1500mm long	Each	19999.00
9.9	Providing and fixing metal clad, SP&N switch fuse unit (re-wirable), 230/250 volts, with porcelain re-wireble fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).		
9.9.1	32 amps	Each	931.00
9.9.2	63 amps	Each	1676.00



9.10	Providing and fixing metal clad, TP&N switch fuse unit (re-wirable), 415/500 volts, with porcelain re-wireable fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).		
9.10.1	32 amps	Each	878.00
9.10.2	63 amps	Each	1821.00
9.10.3	100 amps	Each	3306.00
9.10.4	200 amps	Each	5067.00
9.11	Providing and fixing porcelain re-wireable fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as required. (Thimbeling shall be paid separately).		
9.11.1	16 amps	Each	57.00
9.11.2	32 amps	Each	85.50
9.11.3	63 amps	Each	157.00
9.11.4	100 amps	Each	275.00
9.11.5	200 amps	Each	524.00
9.11.6	300 amps	Each	754.00
9.12	Providing and fixing metal clad, TP&N double break fuse switch unit (HRC), 415/500 volts, with H.R.C. fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).		
9.12.1	63 amps	Each	3511.00
9.12.2	100 amps	Each	4713.00
9.12.3	200 amps	Each	7975.00
9.12.4	320 amps	Each	8954.00
9.12.5	400 amps	Each	12799.00
9.12.6	500 amps	Each	18047.00
9.12.7	800 amps	Each	22478.00
9.13	Providing and fixing bolted connection type following H.R.C. fuses, with 80 KA breaking capacity in existing SFU/ FSU including bolts and nuts etc. as required.		
9.13.1	32 amps	Each	43.00
9.13.2	63 amps	Each	58.50
9.13.3	100 amps	Each	120.00
9.13.4	125 amps	Each	120.00
9.13.5	200 amps	Each	169.00
9.13.6	300 amps	Each	243.00
9.13.7	400 amps	Each	459.00
9.13.8	500 amps	Each	515.00
9.13.9	600 amps	Each	925.00
9.14	Providing and fixing knife (DIN) type following H.R.C. fuses, with 80 KA breaking capacity in existing SFU/ FSU including bolts and nuts etc. as required.		
9.14.1	32 amps	Each	139.00
9.14.2	63 amps	Each	142.00
9.14.3	100 amps	Each	151.00
9.14.4	125 amps	Each	191.00
9.14.5	200 amps	Each	302.00
9.14.6	300 amps	Each	450.00
9.14.7	400 amps	Each	475.00
9.14.8	500 amps	Each	682.00
9.14.9	600 amps	Each	682.00



9.15	Providing and making interconnection in cubical panel between BBC and switchgears with following size PVC insulated aluminium conductor cable lead of length upto 50cm including providing aluminium thimbles on both ends as required (To be measured separately for each phase/ neutral).		
9.15.1	10 sqmm (32 amp)	Each	45.00
9.15.2	25 sqmm (63 amp)	Each	52.00
9.15.3	50 sqmm (100 amps)	Each	71.00
9.15.4	70 sqmm (125 amps)	Each	90.00
9.16	Providing and making interconnection in cubical panel between BBC and switchgears with following size aluminium strip of length upto 50cm as required (To be measured separately for each phase/ neutral).		
9.16.1	20x5mm (100 amps)	Each	74.50
9.16.2	30x5mm (200 amps)	Each	96.50
9.16.3	50x5mm (300 amps)	Each	146.00
9.16.4	50x6mm (400 amps)	Each	168.00
9.16.5	75x6mm (500 amps)	Each	233.00
9.16.6	80x6mm (600 amps)	Each	247.00
9.16.7	100x6mm (800 amps)	Each	305.00
9.16.8	100x10mm (1000 amps)	Each	480.00
9.16.9	125x10mm (1200 amps)	Each	595.00
9.16.10	2 Nos 100x10mm (1600 amps)	Each	920.00
9.17	Providing and making interconnection in cubical panel between BBC and switchgears with following size PVC insulated copper conductor cable lead of length upto 50cm including providing copper thimbles on both ends as required (To be measured separately for each phase/ neutral).		
9.17.1	10 sqmm (32 amp)	Each	73.00
9.17.2	16 sqmm (63 amp)	Each	97.50
9.17.3	35 sqmm (125 amps)	Each	172.00
9.18	Providing and making interconnection in cubical panel between BBC and switchgears with following size copper strip of length upto 50cm as required (To be measured separately for each phase/ neutral).		
9.18.1	20x3mm (100 amps)	Each	165.00
9.18.2	25x5mm (200 amps)	Each	285.00
9.18.3	40x5mm (300 amps)	Each	441.00
9.18.4	50x5mm (400 amps)	Each	544.00
9.18.5	60x5mm (500 amps)	Each	636.00
9.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as required. (Only face area is to be measured)		
9.19.1	Upto 300 mm deep	sqm	6492.00
9.19.2	Above 300 mm and upto 450 mm deep	sqm	7167.00
9.19.3	Above 450 mm and upto 600 mm deep	sqm	8108.00



9.19.4	750 mm deep	sqm	8614.00
9.19.5	900 mm deep	sqm	9060.00
9.19.6	1200 mm deep	sqm	9951.00
9.20	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as required.		
9.20.1	100 amp (20x5mm)	Metre	682.00
9.20.2	200 amp (30x5mm)	Metre	858.00
9.20.3	300 amp (50x5mm)	Metre	1275.00
9.20.4	400 amp (50x6mm)	Metre	1454.00
9.20.5	500 amp (75x6mm)	Metre	1981.00
9.20.6	600 amp (80x6mm)	Metre	2086.00
9.20.7	800 amp (100x6mm)	Metre	2634.00
9.20.8	1000 amp (100x10mm)	Metre	4040.00
9.20.9	1200 amp (125x10mm)	Metre	4918.00
9.20.10	1600 amp (2X100x6mm)	Metre	7676.00
9.20.11	2000 amp (2X125x10mm)	Metre	9544.00
9.20.12	2500 amp (3X125x10mm)	Metre	13826.00
9.21	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) copper (electric grade) bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as required.		
9.21.1	100 amp (20x3mm)	Metre	1262.00
9.21.2	200 amp (25x5mm)	Metre	2270.00
9.21.3	300 amp (40x5mm)	Metre	2533.00
9.21.4	400 amp (50x5mm)	Metre	3332.00
9.21.5	500 amp (60x5mm)	Metre	4064.00
10	RISING MAINS		
10.1	Supplying, installing on wall, testing and commissioning of following capacity rising mains in 1.6mm thick sheet steel enclosure duly painted with powder coating, wall straps, fully PVC insulated TPN aluminum busbars in convenient sections and suitable for 400/650 volts, 3 phase, 4 wire, 50 Hz, A.C. supply with extension joints, fire proof barriers, expansion joints, thrust pads including jointing, and earthing with 2 runs of galvanised iron strips etc. as required. (Rising mains conforming to IS 8623, TEC 439):		
10.1.1	125 amps (S.C. rating for 1 sec - 15 KA)	Metre	4852.00
10.1.2	315 amps (S.C. rating for 1 sec - 20 KA)	Metre	5067.00
10.1.3	400 amps (S.C. rating for 1 sec - 25 KA)	Metre	6276.00
10.1.4	630 amps (S.C. rating for 1 sec - 45 KA)	Metre	7032.00
10.1.5	800 amps (S.C. rating for 1 sec - 50 KA)	Metre	8510.00
10.2	Supplying, installing, testing and commissioning of TPN tap off box of following capacity, made of 1.6mm thick sheet steel enclosure duly painted with powder coating, on existing rising mains with space for TP Disconnector switch/ MCCB (without switch/MCCB), interconnections with copper lead and copper lugs/thimbles, earthing etc. as required:		



10.2.1	100 amps	Each	913.00
10.2.2	200 amps	Each	1575.00
10.2.3	250 amps	Each	2981.00
10.2.4	400 amps	Each	5827.00
10.3	Supplying, installation, including suspension, testing and commissioning of following capacity bus trunking with aluminium bus bars in 1.6mm thick sheet steel enclosure in convenient sections for use on, 3 phase, 4 wire, 415 volts, 50 Hz, A.C. supply including jointing of sections, flexible joints, expansion joints, bends and earthing with 2 runs of galvanised iron strips, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.		
10.3.1	800 amps	Metre	8167.00
10.3.2	1000 amps	Metre	9662.00
10.3.3	1250 amps	Metre	12322.00
10.3.4	1600 amps	Metre	15425.00
10.3.5	2500 amps	Metre	17783.00
10.4	Supplying, installing on wall, testing and commissioning of following capacity Air Insulated COMPACT TYPE RISING MAINS for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints & expansion joints, fire barrier at each floor, provision of tapping at every metre, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required:		
10.4.1	200 amps 15KA SC for 1 sec	Metre	5026.00
10.4.2	315 amps 25KA SC for 1 sec	Metre	5436.00
10.4.3	400 amps 30KA SC for 1 sec	Metre	6032.00
10.4.4	500 amps 35KA SC for 1 sec	Metre	6943.00
10.4.5	630 amps 50KA SC for 1 sec	Metre	8286.00
10.4.6	800 amps 50KA SC for 1 sec	Metre	11464.00
10.4.7	1000 amps 50KA SC for 1 sec	Metre	13375.00
10.4.8	1250 amps 50KA SC for 1 sec	Metre	15851.00
10.5	Supplying, installing on wall, testing and commissioning of following capacity Air Insulated COMPACT TYPE BUS TRUNKING for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints, elbow joints & expansion joints, fire barrier at each floor, provision of tapping at every metre, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required:		
10.5.1	200 amps 15KA SC for 1 sec	Metre	5521.00
10.5.2	315 amps 25KA SC for 1 sec	Metre	6270.00
10.5.3	400 amps 30KA SC for 1 sec	Metre	6627.00
10.5.4	500 amps 35KA SC for 1 sec	Metre	7628.00



10.5.5	630 amps 50KA SC for 1 sec	Metre	9105.00
10.5.6	800 amps 50KA SC for 1 sec	Metre	12412.00
10.5.7	1000 amps 50KA SC for 1 sec	Metre	14490.00
10.5.8	1250 amps 50KA SC for 1 sec	Metre	17425.00
10.6	Supplying, installing suspension ON CEILING, testing and commissioning of following capacity Air Insulated COMPACT TYPE BUS TRUNKING for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints, elbow joints & expansion joints, fire barrier at each floor, provision of tapping at every metre, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required:		
10.6.1	200 amps 15KA SC for 1 sec	Metre	5554.00
10.6.2	315 amps 25KA SC for 1 sec	Metre	6303.00
10.6.3	400 amps 30KA SC for 1 sec	Metre	6660.00
10.6.4	500 amps 35KA SC for 1 sec	Metre	7661.00
10.6.5	630 amps 50KA SC for 1 sec	Metre	9138.00
10.6.6	800 amps 50KA SC for 1 sec	Metre	12445.00
10.6.7	1000 amps 50KA SC for 1 sec	Metre	14523.00
10.6.8	1250 amps 50KA SC for 1 sec	Metre	17458.00
10.7	Supplying, installing, End Feed Unit and connecting to existing general/ Compact Type bus trunking/ Rising mains, of following capacity for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure duly powder coated with space provision of Disconnect switch/ MCCB/ ACB (but without Switch/MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required:		
10.7.1	200 amps 15KA SC for 1 sec	Each	3938.00
10.7.2	315 amps 25KA SC for 1 sec	Each	4240.00
10.7.3	400 amps 30KA SC for 1 sec	Each	5440.00
10.7.4	500 amps 35KA SC for 1 sec	Each	5679.00
10.7.5	630 amps 50KA SC for 1 sec	Each	7009.00
10.7.6	800 amps 50KA SC for 1 sec	Each	8817.00
10.7.7	1000 amps 50KA SC for 1 sec	Each	9421.00
10.7.8	1250 amps 50KA SC for 1 sec	Each	10281.00
10.8	Supplying, installing, connecting to existing Air Insulated Compact Type bus trunking/ rising mains, testing and commissioning of following capacity Plug In/ Tap Off Box for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with 1.6mm thick steel sheet enclosure duly powder coated with provision of MCCB (but without MCCB) complete etc. as required:		
10.8.1	125 amps 15KA SC for 1 sec	Each	4463.00
10.8.2	200 amps 25KA SC for 1 sec	Each	5655.00
10.8.3	315 amps 30KA SC for 1 sec	Each	7246.00
10.8.4	400 amps 35KA SC for 1 sec	Each	7246.00
10.8.5	500 amps 50KA SC for 1 sec	Each	10427.00
10.8.6	630 amps 50KA SC for 1 sec	Each	10449.00



10.9	Supplying, installing by suspension on ceiling, testing and commissioning of following capacity COMPACT SANDWICH TYPE BUS TRUNKING for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every metre, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required:		
10.9.1	400 amps 25KA SC for 1 sec	Metre	8964.00
10.9.2	500 amps 30KA SC for 1 sec	Metre	9773.00
10.9.3	630 amps 50KA SC for 1 sec	Metre	10569.00
10.9.4	800 amps 50KA SC for 1 sec	Metre	12877.00
10.9.5	1000 amps 50KA SC for 1 sec	Metre	14516.00
10.9.6	1250 amps 50KA SC for 1 sec	Metre	16566.00
10.9.7	1600 amps 50KA SC for 1 sec	Metre	20907.00
10.9.8	2000 amps 50KA SC for 1 sec	Metre	24587.00
10.9.9	2500 amps 50KA SC for 1 sec	Metre	33284.00
10.9.10	3200 amps 50KA SC for 1 sec	Metre	37336.00
10.9.11	4000 amps 50KA SC for 1 sec	Metre	51213.00
11	MCCB, MCB, MCBDB		
11.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.		
11.1.1	3 pole MCCB, 25-63A, Fixed Thermal Release, 10KA	Each	1556.00
11.1.2	3 pole MCCB, 80-100A, Fixed Thermal Release, 10KA	Each	1674.00
11.1.3	3 pole MCCB, 25-100A, Adjustable Thermal Release, 18KA	Each	2514.00
11.1.4	3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA	Each	3898.00
11.1.5	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA	Each	6133.00
11.1.6	3 pole MCCB, 160A, Adjustable Thermal - Magnetic Release, 25KA	Each	8025.00
11.1.7	3 pole MCCB, 200A, Adjustable Thermal - Magnetic Release, 25KA	Each	10179.00
11.1.8	3 pole MCCB, 250A, Adjustable Thermal - Magnetic Release, 25KA	Each	12069.00
11.1.9	3 pole MCCB, 200A, Adjustable Thermal - Magnetic Release, 35KA	Each	12459.00
11.1.10	3 pole MCCB, 250A, Adjustable Thermal - Magnetic Release, 35KA	Each	13561.00
11.1.11	3 pole MCCB, 320A, Adjustable Thermal - Magnetic Release, 35KA	Each	14571.00
11.1.12	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 35KA	Each	14896.00
11.1.13	3 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 35KA	Each	18067.00



11.1.14	3 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 35KA	Each	20039.00
11.1.15	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 50KA	Each	17037.00
11.1.16	3 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 50KA	Each	19440.00
11.1.17	3 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 50KA	Each	21036.00
11.1.18	3 pole MCCB, 250A, Adjustable Microprocessor Release, 35KA	Each	15684.00
11.1.19	3 pole MCCB, 400A, Adjustable Microprocessor Release, 35KA	Each	18841.00
11.1.20	3 pole MCCB, 630A, Adjustable Microprocessor Release, 35KA	Each	20470.00
11.1.21	3 pole MCCB, 400A, Adjustable Microprocessor Release, 50KA	Each	20692.00
11.1.22	3 pole MCCB, 630A, Adjustable Microprocessor Release, 50KA	Each	22483.00
11.1.23	3 pole MCCB, 800A, Adjustable Microprocessor Release, 50KA	Each	35482.00
11.1.24	4 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 50KA	Each	21244.00
11.1.25	4 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 50KA	Each	25115.00
11.1.26	4 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 50KA	Each	26899.00
11.1.27	4 pole MCCB, 400A, Adjustable Microprocessor Release, 50KA	Each	26401.00
11.1.28	4 pole MCCB, 630A, Adjustable Microprocessor Release, 50KA	Each	29309.00
11.1.29	4 pole MCCB, 800A, Adjustable Microprocessor Release, 50KA	Each	44072.00
11.2	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator)		
11.2.1	4 way, Single door	Each	602.00
11.2.2	8 way, Single door	Each	736.00
11.2.3	12 way, Single door	Each	846.00
11.2.4	16 way, Single door	Each	1017.00
11.2.5	4 way, Double door	Each	815.00
11.2.6	8 way, Double door	Each	986.00
11.2.7	12 way, Double door	Each	1154.00
11.2.8	16 way, Double door	Each	1412.00
11.3	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board consumer unit of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator)		
11.3.1	2 + 4 way	Each	661.00
11.3.2	2 + 8 way	Each	816.00



11.3.3	2 + 12 way	Each	1000.00
11.3.4	2 + 16 way	Each	1071.00
11.4	Supplying and fixing on surface/ recess horizontal type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator)		
11.4.1	4 way Single door	Each	1388.00
11.4.2	6 way Single door	Each	1668.00
11.4.3	8 way Single door	Each	2075.00
11.4.4	4 way Double door	Each	1783.00
11.4.5	6 way Double door	Each	2131.00
11.4.6	8 way Double door	Each	2664.00
11.5	Supplying and fixing on surface/ recess vertical type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, with 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland/ knock out plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator) (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
11.5.1	4 way (4 + 12), Single door	Each	3853.00
11.5.2	8 way (4 + 24), Single door	Each	4706.00
11.5.3	12 way (4 + 36), Single door	Each	6726.00
11.5.4	4 way (4 + 12), Double door	Each	4314.00
11.5.5	8 way (4 + 24), Double door	Each	5391.00
11.5.6	12 way (4 + 36), Double door	Each	7175.00
11.6	Supplying and fixing on surface/ recess vertical type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, with 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland/ knock out plate, provision for 63/100 amp MCCB as incomer including interconnection between incomer MCCB and busbars, earthing etc. as required. (But without MCCB and MCB) (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
11.6.1	4 way (4 + 12), Single door with provision for 100 amps MCCB as incomer	Each	3644.00
11.6.2	8 way (4 + 24), Single door with provision for 100 amps MCCB as incomer	Each	4705.00
11.6.3	12 way (4 + 36), Single door with provision for 100 amps MCCB as incomer	Each	5694.00
11.6.4	4 way (4 + 12), Double door with provision for 100 amps MCCB as incomer	Each	4844.00
11.6.5	8 way (4 + 24), Double door with provision for 100 amps MCCB as incomer	Each	5455.00
11.6.6	12 way (4 + 36), Double door with provision for 100 amps MCCB as incomer	Each	6477.00



11.7	Supplying and fixing on surface/ recess prewired following way, 240 volts SP&N, MCB distribution board of sheet steel phosphatized and powder painted complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks including interconnections, earthing etc. as required. (But without MCB/ RCCB/ Isolator)		
11.7.1	2 + 4 way, Single door	Each	1670.00
11.7.2	2 + 8 way, Single door	Each	1993.00
11.7.3	2 + 12 way, Single door	Each	2333.00
11.7.4	2 + 4 way, Double door	Each	2096.00
11.7.5	2 + 8 way, Double door	Each	2508.00
11.7.6	2 + 12 way, Double door	Each	3031.00
11.8	Supplying and fixing on surface/ recess prewired horizontal type following way, 415 volts TP&N, MCB distribution board of sheet steel phosphatized and powder painted complete complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks including interconnections, earthing etc. as required. (But without MCB/ RCCB/ Isolator)		
11.8.1	4 way (4 + 12), Single door	Each	5408.00
11.8.2	6 way (4 + 18), Single door	Each	6984.00
11.8.3	8 way (4 + 24), Single door	Each	7996.00
11.8.4	12 way (4 + 36), Single door	Each	9827.00
11.8.5	4 way (4 + 12), Double door	Each	6192.00
11.8.6	6 way (4 + 18), Double door	Each	8005.00
11.8.7	8 way (4 + 24), Double door	Each	8775.00
11.8.8	12 way (4 + 36), Double door	Each	10790.00
11.9	Supplying and fixing on surface/ recess prewired vertical type following way, 415 volts TP&N, MCB distribution board of sheet steel phosphatized and powder painted complete with loose wire box, terminal blocks, 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland plate, loose wire box, superior make terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks including interconnections, earthing etc. as required. (But without MCB/ RCCB/ Isolator) (Note: Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
11.9.1	4 way (4 + 12), Single door	Each	6434.00
11.9.2	6 way (4 + 18), Single door	Each	8327.00
11.9.3	8 way (4 + 24), Single door	Each	10020.00
11.9.4	12 way (4 + 36), Single door	Each	13323.00
11.9.5	4 way (4 + 12), Double door	Each	7369.00
11.9.6	6 way (4 + 18), Double door	Each	9549.00
11.9.7	8 way (4 + 24), Double door	Each	11004.00
11.9.8	12 way (4 + 36), Double door	Each	14640.00



11.10	Supplying and fixing SP MCB, 240 volts, 'B' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.10.1	6 amps to 32 amps	Each	154.00
11.10.2	40 amps	Each	313.00
11.11	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.11.1	0.5 amps to 5 amps	Each	223.00
11.11.2	6 amps to 32 amps	Each	154.00
11.11.3	40 amps	Each	313.00
11.12	Supplying and fixing DP MCB, 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.12.1	0.5 amps to 5 amps	Each	595.00
11.12.2	6 amps to 32 amps	Each	428.00
11.12.3	40 amps	Each	684.00
11.12.4	50 amps	Each	684.00
11.12.5	63 amps	Each	684.00
11.13	Supplying and fixing DP MCB, 240 volts, 'D' curve, suitable for inductive/ motor load in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.13.1	0.5 amps to 5 amps	Each	595.00
11.13.2	6 amps to 32 amps	Each	456.00
11.13.3	40 amps	Each	721.00
11.13.4	50 amps	Each	721.00
11.13.5	63 amps	Each	721.00
11.14	Supplying and fixing TP MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.14.1	0.5 amps to 5 amps	Each	909.00
11.14.2	6 amps to 32 amps	Each	696.00
11.14.3	40 amps	Each	1048.00
11.14.4	50 amps	Each	1048.00
11.14.5	63 amps	Each	1048.00
11.15	Supplying and fixing TP MCB, 440 volts, 'D' curve, suitable for inductive/ motor load in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.15.1	0.5 amps to 5 amps	Each	915.00
11.15.2	6 amps to 32 amps	Each	724.00
11.15.3	40 amps	Each	1119.00
11.15.4	50 amps	Each	1119.00
11.15.5	63 amps	Each	1119.00
11.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.16.1	0.5 amps to 5 amps	Each	1160.00
11.16.2	6 amps to 32 amps	Each	929.00
11.16.3	40 amps	Each	1339.00



11.16.4	50 amps	Each	1339.00
11.16.5	63 amps	Each	1339.00
11.17	Supplying and fixing TP&N MCB, 440 volts, 'D' curve, suitable for inductive/ motor load in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.17.1	0.5 amps to 5 amps	Each	1164.00
11.17.2	6 amps to 32 amps	Each	960.00
11.17.3	40 amps	Each	1404.00
11.17.4	50 amps	Each	1404.00
11.17.5	63 amps	Each	1404.00
11.18	Supplying and fixing following rating, 240 volts TWO POLE ISOLATOR in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.18.1	25 amps	Each	234.00
11.18.2	40 amps	Each	271.00
11.18.3	63 amps	Each	351.00
11.19	Supplying and fixing following rating, 415 volts, FOUR POLES, ISOLATOR in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.19.1	40 amps	Each	593.00
11.19.2	63 amps	Each	645.00
11.19.3	100 amps	Each	679.00
11.20	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.20.1	25 amps	Each	1579.00
11.20.2	40 amps	Each	1854.00
11.20.3	63 amps	Each	2150.00
11.21	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
11.21.1	25 amps	Each	2114.00
11.21.2	40 amps	Each	2139.00
11.21.3	63 amps	Each	2453.00
11.22	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	7.80
11.23	Supplying and fixing 2 pole and earth, 240 volts, industrial type, socket outlet, enclosed metal plug top along with SP MCB in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.		
11.23.1	20 Amp with "C" curve MCB	Each	1025.00
11.23.2	32 Amp with "C" curve MCB	Each	1016.00



11.24	Supplying and fixing TPN and earth, 440 volts, industrial type, socket outlet, enclosed metal plug top along with MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.		
11.24.1	20 Amp with "C" curve TP MCB	Each	2308.00
11.24.2	32 Amp with "C" curve TP MCB	Each	2841.00
11.25	Supplying and fixing sheet steel enclosure of suitable size made of 1.6mm thick CRCA MS sheet, for 100 amps MCCB on existing metal board/ wall including painting etc as required.	Each	460.00
12	ACB, STARTER, CONTACTOR, PANEL ACCESSORIES		
12.1	Providing and fixing approved make, Manually Operated, draw out type, 415/500 volts, air circuit breaker complete with all standard accessories as per manufacturers specifications including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required.		
12.1.1	800 amps, 3 pole, 50 KA	Each	118017.00
12.1.2	1250 amps, 3 pole, 50 KA	Each	129376.00
12.1.3	1600 amps, 3 pole, 50 KA	Each	148237.00
12.1.4	2000 amps, 3 pole, 50 KA	Each	181154.00
12.1.5	3200 amps, 3 pole, 65 KA	Each	266969.00
12.1.6	4000 amps, 3 pole, 65 KA	Each	323108.00
12.1.7	800 amps, 4 pole, 50 KA	Each	140861.00
12.1.8	1250 amps, 4 pole, 50 KA	Each	165229.00
12.1.9	1600 amps, 4 pole, 50 KA	Each	182919.00
12.1.10	2000 amps, 4 pole, 50 KA	Each	222800.00
12.1.11	3200 amps, 4 pole, 65 KA	Each	336964.00
12.1.12	4000 amps, 4 pole, 65 KA	Each	386636.00
12.2	Providing and fixing approved make, Electrically Operated, draw out type, 415/500 volts, 4 pole air circuit breaker complete with all standard accessories as per manufacturers specifications including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required.		
12.2.1	800 amps, 4 pole, 50 KA	Each	167152.00
12.2.2	1250 amps, 4 pole, 50 KA	Each	191521.00
12.2.3	1600 amps, 4 pole, 50 KA	Each	209211.00
12.2.4	2000 amps, 4 pole, 50 KA	Each	249091.00
12.2.5	3200 amps, 4 pole, 65 KA	Each	363255.00
12.2.6	4000 amps, 4 pole, 65 KA	Each	418400.00
12.3	Providing installation testing and commissioning of approved make, 11 KV 1600 amp out door type VCB as per IS 13118 and additional specification suitable for use on 11KV 3 phase 50 Hz AC supply with rated capacity 26.3kA for 3 Sec insulation level 28 kV rms 75 kV peak with heater and spring charging motor operatable on 230 V AC supply complete with all standard accessories as per manufacturers specifications on existing CC foundation (excluding the cost of CC foundation) including connections, earthing the body etc. as required.	Each	352678.00



12.4	Providing installation testing and commissioning of approved make, 33 KV VCB 1250 amp out door type as per IS 13118 and additional specification suitable for use on 33 KV 3 phase 50 Hz AC supply with rated capacity 26.3kA for 3 Sec insulation level 70 kV rms 170 kV peak with heater and spring charging motor operatable on 230 V AC supply complete with all standard accessories as per manufacturers specifications on existing CC foundation (excluding the cost of CC foundation) including connections, earthing the body etc. as required.	Each	624483.00
12.5	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing cubicle panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, testing and commissioning etc as required. (Connecting lead if required shall be paid separately)		
12.5.1	32 Amp TP&N	Each	1191.00
12.5.2	63 Amp TP&N	Each	1628.00
12.5.3	100 Amp TP&N	Each	3411.00
12.5.4	125 Amp TP&N	Each	3876.00
12.5.5	160 Amp TP&N	Each	4561.00
12.5.6	200 Amp TP&N	Each	5317.00
12.5.7	320 Amp TP&N	Each	8246.00
12.5.8	400 Amp TP&N	Each	10079.00
12.6	Providing and fixing metal clad, 4 pole, on load change over switch unit (without sheet steel enclosure), 415/500 volts, in cubicle panel including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required. (Connecting lead if required shall be paid separately)		
12.6.1	63 amps	Each	3810.00
12.6.2	100 amps	Each	5012.00
12.6.3	200 amps	Each	10008.00
12.6.4	315 amps	Each	14954.00
12.6.5	400 amps	Each	21801.00
12.6.6	630 amps	Each	25621.00
12.6.7	800 amps	Each	38295.00
12.7	Providing and fixing metal clad, 4 pole, on load change over switch unit (with sheet steel enclosure), 415/500 volts, in cubicle panel including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required. (Connecting lead if required shall be paid separately)		
12.7.1	63 amps	Each	5281.00
12.7.2	100 amps	Each	6718.00
12.7.3	200 amps	Each	12557.00
12.7.4	315 amps	Each	18207.00
12.7.5	400 amps	Each	26581.00
12.7.6	630 amps	Each	30773.00
12.7.7	800 amps	Each	45589.00
12.8	Providing and fixing metal clad, TP&N motorized change over switch unit, 415/500 volts, including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required.		



12.8.1	125 amps	Each	28281.00
12.8.2	200 amps	Each	30140.00
12.8.3	250 amps	Each	37516.00
12.8.4	320 amps	Each	38002.00
12.8.5	400 amps	Each	47806.00
12.8.6	630 amps	Each	51722.00
12.8.7	800 amps	Each	77769.00
12.9	Providing and fixing metal clad, TP&N 4 pole automatic change over switch unit, 415/500 volts, including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required.		
12.9.1	125 amps	Each	43311.00
12.9.2	160 amps	Each	50080.00
12.9.3	250 amps	Each	62612.00
12.9.4	400 amps	Each	76951.00
12.9.5	630 amps	Each	100997.00
12.9.6	800 amps	Each	142715.00
12.9.7	1000 amps	Each	132176.00
12.10	Providing and fixing metal clad, TP&N 415/500 volts, By Pass Switch Unit with sheet steel enclosure including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required.		
12.10.1	125 amps	Each	14937.00
12.10.2	200 amps	Each	18052.00
12.10.3	250 amps	Each	25770.00
12.10.4	320 amps	Each	26626.00
12.10.5	400 amps	Each	38399.00
12.10.6	630 amps	Each	44843.00
12.10.7	800 amps	Each	64452.00
12.11	Providing and fixing following rating motor starter on metal board including, connections, testing and commissioning etc. as required.		
12.11.1	DOL single phase 16 amps	Each	1084.00
12.11.2	DOL three phase 16 amps	Each	1434.00
12.11.3	DOL three phase 32 amps	Each	2458.00
12.11.4	DOL three phase 63 amps	Each	3225.00
12.11.5	Automatic Star Delta three phase 16 amps	Each	5176.00
12.11.6	Automatic Star Delta three phase 32 amps	Each	5209.00
12.11.7	Automatic Star Delta three phase 63 amps	Each	8452.00
12.12	Providing and fixing 2 pole, 230/250 volts following rating power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as required.		
12.12.1	16 amps	Each	431.00
12.12.2	32 amps	Each	545.00
12.12.3	63 amps	Each	683.00
12.13	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as required.		
12.13.1	25 amps	Each	746.00
12.13.2	40 amps	Each	1104.00
12.13.3	60 amps	Each	3343.00
12.13.4	100 amps	Each	7277.00



12.13.5	200 amps	Each	10105.00
12.13.6	315 amps	Each	20207.00
12.13.7	400 amps	Each	28041.00
12.14	Providing and fixing 4 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as required.		
12.14.1	25 amps	Each	953.00
12.14.2	40 amps	Each	1538.00
12.14.3	60 amps	Each	3579.00
12.14.4	100 amps	Each	8068.00
12.14.5	200 amps	Each	14569.00
12.14.6	315 amps	Each	27764.00
12.14.7	400 amps	Each	36049.00
12.15	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as required.		
12.15.1	50/5 amps	Each	360.00
12.15.2	100/5 amps	Each	375.00
12.15.3	200/5 amps	Each	379.00
12.15.4	315/5 amps	Each	389.00
12.15.5	400/5 amps	Each	398.00
12.15.6	500/5 amps	Each	398.00
12.15.7	800/5 amps	Each	439.00
12.15.8	1000/5 amps	Each	495.00
12.16	Providing and fixing single phasing preventer in existing panel including connection, testing and commissioning as required.		
		Each	478.00
12.17	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as required.		
		Each	89.00
12.18	Providing and fixing penal mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.		
12.18.1	0-50 amps	Each	370.00
12.18.2	0-100 amps	Each	432.00
12.18.3	0-200 amps	Each	513.00
12.18.4	0-500 amps	Each	513.00
12.18.5	0-1000 amps	Each	513.00
12.19	Providing and fixing penal mounting following rating digital type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.		
12.19.1	0-50 amps	Each	902.00
12.19.2	0-100 amps	Each	902.00
12.19.3	0-200 amps	Each	902.00
12.19.4	0-500 amps	Each	902.00
12.19.5	0-1000 amps	Each	902.00
12.20	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.		
12.20.1	Analog type	Each	432.00



12.20.2	Digital type	Each	902.00
12.21	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as required.		
12.21.1	For voltmeter	Each	162.00
12.21.2	For ammeter	Each	260.00
12.22	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as required.		
12.22.1	Digital type	Each	2070.00
12.22.2	Analoge type	Each	2715.00
12.22.3	Astronomical type with year programmed	Each	3557.00
13	UPS, INVERTOR		
13.1	Supplying, installation, testing and commissioning following rating single phase, 230 volts OFF-LINE UPS (sine wave) with built-in battery including connection as required.		
13.1.1	0.65 KVA	Each	3242.00
13.1.2	1.00 KVA	Each	4521.00
13.1.3	1.50 KVA	Each	8359.00
13.2	Supplying, installation, testing and commissioning following rating single phase in single phase out ON-LINE UPS including connection etc but without batteries as required.		
13.2.1	2 KVA with DC bus voltage 72 V	Each	26316.00
13.2.2	3 KVA with DC bus voltage 72 V	Each	32200.00
13.2.3	5 KVA with DC bus voltage 180 V	Each	45924.00
13.3	Supplying, installation, testing and commissioning following rating single phase 230 volts sine wave inverter (without battery) including connection as required.		
13.3.1	0.65 KVA	Each	7516.00
13.3.2	0.90 KVA	Each	8667.00
13.3.3	1.50 KVA	Each	11545.00
13.4	Supplying, installation, testing and commissioning following rating SMF (Sealed Maintenance Free) lead acid battery including connection as required.		
13.4.1	45 AH	Each	5650.00
13.4.2	60 AH	Each	7441.00
13.4.3	95 AH	Each	10894.00
13.4.4	120 AH	Each	12187.00
14	E A R T H I N G		
14.1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt ) as required.	Set	2472.00
14.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	Set	3454.00



14.3	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as required.	Set	4072.00
14.4	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as required.	Set	6754.00
14.5	Supplying and laying 8 SWG copper wire at 0.50 metre below ground level for conductor earth electrode, including soldering etc. as required.	Metre	76.00
14.6	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as required.	Metre	525.00
14.7	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling the trench etc. as required.	Metre	784.00
14.8	Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling the trench etc. as required.	Metre	168.00
14.9	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	560.00
14.10	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	Metre	76.00
14.11	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as required.	Metre	59.00
14.12	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	Metre	1006.00
14.13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as required.	Metre	38.00
14.14	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as required.	Metre	99.50
14.15	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling the trench etc. as required.	Metre	359.00
14.16	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling the trench etc. as required.	Metre	130.00
14.17	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	119.00



14.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	37.50
14.19	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as required.	Metre	20.50
14.20	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required:		
14.20.1	With 3 metre long GI Pipes and 50 kg back filling compound.	Each	11851.00
14.20.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	8808.00
15	LIGHTING CONDUCTOR		
15.1	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, copper tube, having single prong at top, with 85 mm dia 3 mm thick copper base plate having 4 nos holes for fixing etc. complete as required.	Each	858.00
15.2	Making jointing of copper tape (with another copper tape, base of the finial or any other metallic object) by reverting, sweating and soldering/ nut bolting of as required.	Each	54.00
15.3	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	257.00
15.4	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Metre	275.00
15.5	Providing and fixing testing joint, made of 20 mm X 3 mm thick copper strip, 125 mm long, with 4 nos. of tinned brass bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	111.00
15.6	Providing and laying copper tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	732.00
15.7	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate having 4 nos holes for fixing etc. complete as required.	Each	361.00
15.8	Making jointing of G.I. tape (with another G I tape, base of the finial or any other metallic object) by reverting, sweating and soldering/ nut bolting of as required.	Each	37.50
15.9	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	57.00



15.10	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Metre	74.50
15.11	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	54.00
15.12	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	141.00
15.13	Fixing of lightning conductor finial, made of 25 mm dia 300mm long, copper tube/ G.I. tube, having single prong at top, with 85 mm dia 3mm thick copper base plate including holes etc. complete as required.	Each	92.00
15.14	Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	22.00
15.15	Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Metre	40.00
15.16	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	28.50
16	HDPE, GI, RCC PIPE		
16.1	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.		
16.1.1	63 mm outer dia	Metre	178.00
16.1.2	75 mm outer dia	Metre	202.00
16.1.3	90 mm outer dia	Metre	231.00
16.1.4	120 mm outer dia	Metre	284.00
16.1.5	180 mm outer dia	Metre	412.00
16.1.6	200 mm outer dia	Metre	548.00
16.2	Supplying and laying HDPE pipe of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.		
16.2.1	63 mm outer dia	Metre	140.00
16.2.2	75 mm outer dia	Metre	179.00
16.2.3	90 mm outer dia	Metre	251.00
16.2.4	110 mm outer dia	Metre	346.00
16.2.5	140 mm outer dia	Metre	539.00
16.2.6	160 mm outer dia	Metre	689.00
16.2.7	180 mm outer dia	Metre	857.00
16.2.8	200 mm outer dia	Metre	1037.00
16.3	Supplying and laying following size medium class G.I. pipe in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.		



16.3.1	50 mm internal dia	Metre	367.00
16.3.2	80 mm internal dia	Metre	581.00
16.3.3	100 mm internal dia	Metre	952.00
16.3.4	150 mm internal dia	Metre	1288.00
16.4	Supplying and laying following size RCC Hume pipe class NP-2 (in standard length of 2 metre) with collar in ground below road, path etc at a depth not less than 50 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.		
16.4.1	100 mm dia	Metre	279.00
16.4.2	150 mm dia	Metre	318.00
16.4.3	200 mm dia	Metre	503.00
16.4.4	250 mm dia	Metre	572.00
16.4.5	300 mm dia	Metre	735.00
16.4.6	350 mm dia	Metre	860.00
16.4.7	400 mm dia	Metre	975.00
16.4.8	450 mm dia	Metre	1142.00
16.4.9	500 mm dia	Metre	1372.00
16.5	Supplying and fixing G.I. pipe along with wall or pole/ support with 2 Nos MS clamps for protection of under ground cable in approved manner including bolts and nuts or metal dash fasteners complete as required.		
16.5.1	32 mm dia	Metre	333.00
16.5.2	40 mm dia	Metre	364.00
16.5.3	50 mm dia	Metre	445.00
16.5.4	65 mm dia	Metre	553.00
16.5.5	80 mm dia	Metre	679.00
16.5.6	100 mm dia	Metre	1039.00
16.5.7	150 mm dia	Metre	1375.00
17	MV CABLE LAYING (1.1 KV)		
17.1	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
17.1.1	2 x 4 sq. mm	Metre	231.00
17.1.2	2 x 6 sq. mm	Metre	240.00
17.1.3	2 x 10 sq. mm	Metre	255.00
17.1.4	2 x 16 sq. mm	Metre	269.00
17.1.5	2 x 25 sq. mm	Metre	270.00
17.1.6	2 x 35 sq. mm	Metre	289.00
17.1.7	3 x 10 sq. mm	Metre	267.00
17.1.8	3 x 16 sq. mm	Metre	271.00
17.1.9	3 x 25 sq. mm	Metre	298.00
17.1.10	3 x 35 sq. mm	Metre	329.00
17.1.11	3.5 x 25 sq. mm.	Metre	316.00
17.1.12	3.5 x 35 sq. mm.	Metre	347.00
17.1.13	3.5 x 50 sq. mm.	Metre	404.00
17.1.14	3.5 x 70 sq. mm.	Metre	479.00
17.1.15	3.5 x 95 sq. mm.	Metre	549.00
17.1.16	3.5 x 120 sq. mm.	Metre	639.00
17.1.17	3.5 x 150 sq. mm.	Metre	731.00
17.1.18	3.5 x 185 sq. mm.	Metre	860.00



17.1.19	3.5 x 240 sq. mm.	Metre	1041.00
17.1.20	3.5 x 300 sq. mm.	Metre	1229.00
17.1.21	3.5 x 400 sq. mm.	Metre	1507.00
17.1.22	4 x 10 sq. mm.	Metre	278.00
17.1.23	4 x 16 sq. mm.	Metre	291.00
17.1.24	4 x 25 sq. mm.	Metre	326.00
17.2	Supplying and laying following sizes additional one number, PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground as in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
17.2.1	2 x 4 sq. mm	Metre	170.00
17.2.2	2 x 6 sq. mm	Metre	179.00
17.2.3	2 x 10 sq. mm	Metre	194.00
17.2.4	2 x 16 sq. mm	Metre	208.00
17.2.5	2 x 25 sq. mm	Metre	209.00
17.2.6	2 x 35 sq. mm	Metre	229.00
17.2.7	3 x 10 sq. mm	Metre	206.00
17.2.8	3 x 16 sq. mm	Metre	211.00
17.2.9	3 x 25 sq. mm	Metre	238.00
17.2.10	3 x 35 sq. mm	Metre	269.00
17.2.11	3.5 x 25 sq. mm.	Metre	256.00
17.2.12	3.5 x 35 sq. mm.	Metre	287.00
17.2.13	3.5 x 50 sq. mm.	Metre	341.00
17.2.14	3.5 x 70 sq. mm.	Metre	417.00
17.2.15	3.5 x 95 sq. mm.	Metre	487.00
17.2.16	3.5 x 120 sq. mm.	Metre	576.00
17.2.17	3.5 x 150 sq. mm.	Metre	666.00
17.2.18	3.5 x 185 sq. mm.	Metre	796.00
17.2.19	3.5 x 240 sq. mm.	Metre	974.00
17.2.20	3.5 x 300 sq. mm.	Metre	1164.00
17.2.21	3.5 x 400 sq. mm.	Metre	1440.00
17.2.22	4 x 10 sq. mm.	Metre	218.00
17.2.23	4 x 16 sq. mm.	Metre	231.00
17.2.24	4 x 25 sq. mm.	Metre	266.00
17.3	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as required.		
17.3.1	2 x 4 sq. mm	Metre	70.00
17.3.2	2 x 6 sq. mm	Metre	79.00
17.3.3	2 x 10 sq. mm	Metre	94.00
17.3.4	2 x 16 sq. mm	Metre	108.00
17.3.5	2 x 25 sq. mm	Metre	109.00
17.3.6	2 x 35 sq. mm	Metre	129.00
17.3.7	3 x 10 sq. mm	Metre	106.00
17.3.8	3 x 16 sq. mm	Metre	111.00
17.3.9	3 x 25 sq. mm	Metre	137.00
17.3.10	3 x 35 sq. mm	Metre	168.00
17.3.11	3.5 x 25 sq. mm.	Metre	155.00
17.3.12	3.5 x 35 sq. mm.	Metre	187.00
17.3.13	3.5 x 50 sq. mm.	Metre	241.00
17.3.14	3.5 x 70 sq. mm.	Metre	316.00



17.3.15	3.5 x 95 sq. mm.	Metre	386.00
17.3.16	3.5 x 120 sq. mm.	Metre	476.00
17.3.17	3.5 x 150 sq. mm.	Metre	565.00
17.3.18	3.5 x 185 sq. mm.	Metre	695.00
17.3.19	3.5 x 240 sq. mm.	Metre	875.00
17.3.20	3.5 x 300 sq. mm.	Metre	1063.00
17.3.21	3.5 x 400 sq. mm.	Metre	1340.00
17.3.22	4 x 10 sq. mm.	Metre	117.00
17.3.23	4 x 16 sq. mm.	Metre	130.00
17.3.24	4 x 25 sq. mm.	Metre	165.00
17.4	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing masonry open duct as required.		
17.4.1	2 x 4 sq. mm	Metre	66.00
17.4.2	2 x 6 sq. mm	Metre	74.50
17.4.3	2 x 10 sq. mm	Metre	89.50
17.4.4	2 x 16 sq. mm	Metre	104.00
17.4.5	2 x 25 sq. mm	Metre	105.00
17.4.6	2 x 35 sq. mm	Metre	124.00
17.4.7	3 x 10 sq. mm	Metre	102.00
17.4.8	3 x 16 sq. mm	Metre	106.00
17.4.9	3 x 25 sq. mm	Metre	133.00
17.4.10	3 x 35 sq. mm	Metre	164.00
17.4.11	3.5 x 25 sq. mm.	Metre	151.00
17.4.12	3.5 x 35 sq. mm.	Metre	182.00
17.4.13	3.5 x 50 sq. mm.	Metre	236.00
17.4.14	3.5 x 70 sq. mm.	Metre	312.00
17.4.15	3.5 x 95 sq. mm.	Metre	382.00
17.4.16	3.5 x 120 sq. mm.	Metre	472.00
17.4.17	3.5 x 150 sq. mm.	Metre	561.00
17.4.18	3.5 x 185 sq. mm.	Metre	691.00
17.4.19	3.5 x 240 sq. mm.	Metre	870.00
17.4.20	3.5 x 300 sq. mm.	Metre	1058.00
17.4.21	3.5 x 400 sq. mm.	Metre	1335.00
17.4.22	4 x 10 sq. mm.	Metre	113.00
17.4.23	4 x 16 sq. mm.	Metre	126.00
17.4.24	4 x 25 sq. mm.	Metre	161.00
17.5	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.		
17.5.1	2 x 4 sq. mm	Metre	93.00
17.5.2	2 x 6 sq. mm	Metre	102.00
17.5.3	2 x 10 sq. mm	Metre	116.00
17.5.4	2 x 16 sq. mm	Metre	130.00
17.5.5	2 x 25 sq. mm	Metre	132.00
17.5.6	2 x 35 sq. mm	Metre	151.00
17.5.7	3 x 10 sq. mm	Metre	128.00
17.5.8	3 x 16 sq. mm	Metre	133.00
17.5.9	3 x 25 sq. mm	Metre	160.00
17.5.10	3 x 35 sq. mm	Metre	191.00
17.5.11	3.5 x 25 sq. mm.	Metre	178.00
17.5.12	3.5 x 35 sq. mm.	Metre	209.00
17.5.13	4 x 10 sq. mm.	Metre	140.00



17.5.14	4 x 16 sq. mm.	Metre	153.00
17.5.15	4 x 25 sq. mm.	Metre	188.00
17.6	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 25x3 mm M.S flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
17.6.1	3.5 x 50 sq. mm.	Metre	328.00
17.6.2	3.5 x 70 sq. mm.	Metre	403.00
17.6.3	3.5 x 95 sq. mm.	Metre	473.00
17.6.4	3.5 x 120 sq. mm.	Metre	563.00
17.7	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 40x3 mm MS flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
17.7.1	3.5 x 150 sq. mm.	Metre	652.00
17.7.2	3.5 x 185 sq. mm.	Metre	782.00
17.7.3	3.5 x 240 sq. mm.	Metre	965.00
17.7.4	3.5 x 300 sq. mm.	Metre	1153.00
17.7.5	3.5 x 400 sq. mm.	Metre	1431.00
17.8	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.		
17.8.1	2 x 4 sq. mm	Metre	68.00
17.8.2	2 x 6 sq. mm	Metre	79.00
17.8.3	2 x 10 sq. mm	Metre	88.00
17.8.4	2 x 16 sq. mm	Metre	97.00
17.8.5	2 x 25 sq. mm	Metre	112.00
17.8.6	2 x 35 sq. mm	Metre	130.00
17.8.7	3 x 10 sq. mm	Metre	97.50
17.8.8	3 x 16 sq. mm	Metre	113.00
17.8.9	3 x 25 sq. mm	Metre	140.00
17.8.10	3 x 35 sq. mm	Metre	166.00
17.8.11	3.5 x 25 sq. mm.	Metre	156.00
17.8.12	3.5 x 35 sq. mm.	Metre	183.00
17.8.13	4 x 10 sq. mm.	Metre	108.00
17.8.14	4 x 16 sq. mm.	Metre	130.00
17.8.15	4 x 25 sq. mm.	Metre	164.00
17.9	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 25x3 mm MS flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
17.9.1	3.5 x 50 sq. mm.	Metre	297.00
17.9.2	3.5 x 70 sq. mm.	Metre	368.00
17.9.3	3.5 x 95 sq. mm.	Metre	437.00
17.9.4	3.5 x 120 sq. mm.	Metre	524.00



17.10	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 40x3 mm MS flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
17.10.1	3.5 x 150 sq. mm.	Metre	609.00
17.10.2	3.5 x 185 sq. mm.	Metre	735.00
17.10.3	3.5 x 240 sq. mm.	Metre	914.00
17.10.4	3.5 x 300 sq. mm.	Metre	1094.00
17.10.5	3.5 x 400 sq. mm.	Metre	1373.00
17.11	Supplying and hanging following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on GI bearer wire (binded at every metre) including cost of bearer wire complete as required.		
17.11.1	2 x 4 sq. mm. on 8 SWG GI bearer wire	Metre	89.50
17.11.2	2 x 6 sq. mm. on 8 SWG GI bearer wire	Metre	98.00
17.11.3	2 x 10 sq. mm. on 8 SWG GI bearer wire	Metre	112.00
17.11.4	2 x 16 sq. mm. on 8 SWG GI bearer wire	Metre	126.00
17.11.5	2 x 25 sq. mm. on 8 SWG GI bearer wire	Metre	127.00
17.11.6	2 x 35 sq. mm. on 8 SWG GI bearer wire	Metre	146.00
17.11.7	3 x 10 sq. mm. on 8 SWG GI bearer wire	Metre	124.00
17.11.8	3 x 16 sq. mm. on 8 SWG GI bearer wire	Metre	129.00
17.11.9	3 x 25 sq. mm. on 8 SWG GI bearer wire	Metre	155.00
17.11.10	3 x 35 sq. mm. on 7 SWG GI bearer wire	Metre	187.00
17.11.11	3.5 x 25 sq. mm. on 8 SWG GI bearer wire	Metre	172.00
17.11.12	3.5 x 35 sq. mm. on 7 SWG GI bearer wire	Metre	205.00
17.11.13	3.5 x 50 sq. mm. on 6 SWG GI bearer wire	Metre	254.00
17.11.14	3.5 x 70 sq. mm. on 6 SWG GI bearer wire	Metre	327.00
17.11.15	3.5 x 95 sq. mm. on 5 SWG GI bearer wire	Metre	399.00
17.11.16	3.5 x 120 sq. mm. on 4 SWG GI bearer wire	Metre	489.00
17.11.17	3.5 x 150 sq. mm. on 4 SWG GI bearer wire	Metre	570.00
17.11.18	4 x 10 sq. mm. on 8 SWG GI bearer wire	Metre	135.00
17.11.19	4 x 16 sq. mm. on 8 SWG GI bearer wire	Metre	148.00
17.11.20	4 x 25 sq. mm. on 7 SWG GI bearer wire	Metre	184.00
17.12	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, copper conductor controle cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
17.12.1	2 x 1.5 sq. mm	Metre	239.00
17.12.2	4 x 1.5 sq. mm	Metre	267.00
17.12.3	6 x 1.5 sq. mm	Metre	296.00
17.13	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, copper conductor controle cable of 1.1 KV grade in exiting PVC/ GI pipe etc as required.		
17.13.1	2 x 1.5 sq. mm	Metre	78.50
17.13.2	4 x 1.5 sq. mm	Metre	106.00
17.13.3	6 x 1.5 sq. mm	Metre	135.00



17.14	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, copper conductor control cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.		
17.14.1	2 x 1.5 sq. mm	Metre	101.00
17.14.2	4 x 1.5 sq. mm	Metre	129.00
17.14.3	6 x 1.5 sq. mm	Metre	158.00
17.15	Supplying and laying following sizes one number PVC insulated, PVC sheathed, unarmoured, copper conductor control cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.		
17.15.1	2 x 1.5 sq. mm	Metre	92.50
17.15.2	4 x 1.5 sq. mm	Metre	129.00
17.15.3	6 x 1.5 sq. mm	Metre	158.00
17.16	Laying of following size one number power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
17.16.1	Upto 35 sqmm	Metre	182.00
17.16.2	Above 35 sqmm and upto 120 sqmm	Metre	191.00
17.16.3	Above 120 sqmm and upto 185 sqmm	Metre	200.00
17.16.4	Above 185 sqmm and upto 400 sqmm	Metre	208.00
17.17	Laying of following sizes one number additional power cable of 1.1 KV grade direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
17.17.1	Upto 35 sqmm	Metre	122.00
17.17.2	Above 35 sqmm and upto 120 sqmm	Metre	128.00
17.17.3	Above 120 sqmm and upto 185 sqmm	Metre	135.00
17.17.4	Above 185 sqmm and upto 400 sqmm	Metre	141.00
17.18	Laying of following sizes one number power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required.		
17.18.1	Upto 35 sqmm	Metre	21.50
17.18.2	Above 35 sqmm and upto 120 sqmm	Metre	28.00
17.18.3	Above 120 sqmm and upto 185 sqmm	Metre	34.50
17.18.4	Above 185 sqmm and upto 400 sqmm	Metre	105.00
17.19	Laying of following sizes one number power cable of 1.1 KV grade in existing masonry open duct as required.		
17.19.1	Upto 35 sqmm	Metre	17.50
17.19.2	Above 35 sqmm and upto 120 sqmm	Metre	24.00
17.19.3	Above 120 sqmm and upto 185 sqmm	Metre	30.00
17.19.4	Above 185 sqmm and upto 400 sqmm	Metre	36.50
17.20	Laying and fixing following sizes one number power cable of size up to 35 sq.mm and 1.1 KV grade on surface/ existing cable tray as required.	Metre	44.50
17.21	Laying and fixing following sizes one number power cable of 1.1 KV grade on surface/ existing cable tray as required.		
17.21.1	Upto 35 sqmm (with 1 mm thick GI saddle)	Metre	115.00
17.21.2	Above 35 sqmm and upto 120 sqmm (with clamp made of 25x3mm MS flat)	Metre	115.00



17.21.3	Above 120 sqmm and upto 185 sqmm (with clamp made of 40x3mm MS flat)	Metre	121.00
17.21.4	Above 185 sqmm and upto 400 sqmm (with clamp made of 40x3mm MS flat)	Metre	132.00
17.22	Laying, binding with 14 SWG G.I. wire and hanging following sizes one number power cable of 1.1 KV grade in air with bearer wire including binding material but excluding cost of bearer wire as required.		
17.22.1	Upto 35 sqmm	Metre	32.00
17.22.2	Above 35 sqmm and upto 120 sqmm	Metre	36.00
17.22.3	Above 120 sqmm and upto 185 sqmm	Metre	40.50
17.22.4	Above 185 sqmm and upto 400 sqmm	Metre	44.50
17.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.		
17.23.1	2 X 4 sq. mm (16 mm)	Each	89.00
17.23.2	2 X 6 sq. mm (16 mm)	Each	89.50
17.23.3	2 X 10 sq. mm (19 mm)	Each	95.00
17.23.4	2 X 16 sq. mm (19 mm)	Each	96.00
17.23.5	2 X 25 sq. mm (22 mm)	Each	106.00
17.23.6	2 X 35 sq. mm (25 mm)	Each	116.00
17.23.7	2 X 50 sq. mm (25 mm)	Each	121.00
17.23.8	3 X 10 sq. mm (19 mm)	Each	97.00
17.23.9	3 X 16 sq. mm (22 mm)	Each	108.00
17.23.10	3 X 25 sq. mm (25 mm)	Each	117.00
17.23.11	3 X 35 sq. mm (25 mm)	Each	121.00
17.23.12	3½ X 25 sq. mm (25 mm)	Each	120.00
17.23.13	3½ X 35 sq. mm (28 mm)	Each	168.00
17.23.14	3½ X 50 sq. mm (32 mm)	Each	187.00
17.23.15	3½ X 70 sq. mm (35 mm)	Each	222.00
17.23.16	3½ X 95 sq. mm (38 mm)	Each	296.00
17.23.17	3½ X 120 sq. mm (45 mm)	Each	343.00
17.23.18	3½ X 150 sq. mm (45 mm)	Each	356.00
17.23.19	3½ X 185 sq. mm (50 mm)	Each	419.00
17.23.20	3½ X 240 sq. mm (57 mm)	Each	541.00
17.23.21	3½ X 300 sq. mm (63 mm)	Each	685.00
17.23.22	3½ X 400 sq. mm (70 mm)	Each	740.00
17.23.23	4 X 10 sq. mm (22 mm)	Each	108.00
17.23.24	4 X 16 sq. mm (22 mm)	Each	110.00
17.23.25	4 X 25 sq. mm (25 mm)	Each	140.00
17.23.26	4 X 35 sq. mm (28 mm)	Each	169.00
17.24	Supplying and making end termination with brass compression gland and copper lugs for following size armoured copper conductor power cable of 1.1 KV grade as required.		
17.24.1	2 X 4 sq. mm (16 mm)	Each	95.50
17.24.2	2 X 6 sq. mm (16 mm)	Each	96.00
17.24.3	2 X 10 sq. mm (19 mm)	Each	103.00
17.24.4	2 X 16 sq. mm (19 mm)	Each	107.00
17.24.5	2 X 25 sq. mm (22 mm)	Each	128.00
17.24.6	2 X 35 sq. mm (25 mm)	Each	138.00
17.24.7	2 X 50 sq. mm (25 mm)	Each	148.00
17.24.8	3 X 10 sq. mm (19 mm)	Each	110.00
17.24.9	3 X 16 sq. mm (22 mm)	Each	125.00
17.24.10	3 X 25 sq. mm (25 mm)	Each	150.00



17.24.11	3 X 35 sq. mm (25 mm)	Each	153.00
17.24.12	3½ X 25 sq. mm (25 mm)	Each	158.00
17.24.13	3½ X 35 sq. mm (28 mm)	Each	206.00
17.24.14	3½ X 50 sq. mm (32 mm)	Each	239.00
17.24.15	3½ X 70 sq. mm (35 mm)	Each	302.00
17.24.16	3½ X 95 sq. mm (38 mm)	Each	415.00
17.24.17	3½ X 120 sq. mm (45 mm)	Each	504.00
17.24.18	3½ X 150 sq. mm (45 mm)	Each	579.00
17.24.19	3½ X 185 sq. mm (50 mm)	Each	761.00
17.24.20	3½ X 240 sq. mm (57 mm)	Each	998.00
17.24.21	4 X 10 sq. mm (22 mm)	Each	125.00
17.24.22	4 X 16 sq. mm (22 mm)	Each	133.00
17.24.23	4 X 25 sq. mm (25 mm)	Each	183.00
17.24.24	4 X 35 sq. mm (28 mm)	Each	213.00
17.25	Supplying and making outdoor end termination with cast resin compound including aluminum lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor power cable of 1.1 KV grade as required.		
17.25.1	3½ X 35 sq. mm	Each	568.00
17.25.2	3½ X 50 sq. mm	Each	657.00
17.25.3	3½ X 70 sq. mm	Each	708.00
17.25.4	3½ X 95 sq. mm	Each	785.00
17.25.5	3½ X 120 sq. mm	Each	801.00
17.25.6	3½ X 150 sq. mm	Each	1022.00
17.25.7	3½ X 185 sq. mm	Each	1037.00
17.25.8	3½ X 240 sq. mm	Each	1264.00
17.25.9	3½ X 300 sq. mm	Each	1379.00
17.25.10	3½ X 400 sq. mm	Each	1594.00
17.26	Supplying and making straight through joint with cast resin compound including aluminium ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required.		
17.26.1	2 X 10 sq. mm	Each	866.00
17.26.2	2 X 16 sq. mm	Each	896.00
17.26.3	2 X 25 sq. mm	Each	898.00
17.26.4	2 X 35 sq. mm	Each	899.00
17.26.5	2 X 50 sq. mm	Each	1091.00
17.26.6	3 X 16 sq. mm	Each	898.00
17.26.7	3 X 25 sq. mm	Each	901.00
17.26.8	3 X 35 sq. mm	Each	1009.00
17.26.9	3 X 50 sq. mm	Each	1096.00
17.26.10	3½ X 25 sq. mm	Each	1009.00
17.26.11	3½ X 35 sq. mm	Each	1093.00
17.26.12	3½ X 50 sq. mm	Each	1316.00
17.26.13	3½ X 70 sq. mm	Each	1350.00
17.26.14	3½ X 95 sq. mm	Each	1485.00
17.26.15	3½ X 120 sq. mm	Each	1726.00
17.26.16	3½ X 150 sq. mm	Each	1773.00
17.26.17	3½ X 185 sq. mm	Each	1979.00
17.26.18	3½ X 240 sq. mm	Each	2462.00
17.26.19	3½ X 300 sq. mm	Each	2874.00
17.26.20	3½ X 400 sq. mm	Each	3456.00
17.26.21	4 X 16 sq. mm	Each	900.00
17.26.22	4 X 25 sq. mm	Each	1010.00



17.26.23	4 X 35 sq. mm	Each	1094.00
17.26.24	4 X 50 sq. mm	Each	1318.00
17.27	Supplying and making straight through joint with heat shrinkable joint kit including aluminium ferrules for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required.		
17.27.1	2 X 10 sq. mm	Each	856.00
17.27.2	2 X 16 sq. mm	Each	857.00
17.27.3	2 X 25 sq. mm	Each	1025.00
17.27.4	2 X 35 sq. mm	Each	1026.00
17.27.5	2 X 50 sq. mm	Each	1111.00
17.27.6	3 X 16 sq. mm	Each	1271.00
17.27.7	3 X 25 sq. mm	Each	1460.00
17.27.8	3 X 35 sq. mm	Each	1462.00
17.27.9	3 X 50 sq. mm	Each	1946.00
17.27.10	3 X 70 sq. mm	Each	1873.00
17.27.11	3½ X 25 sq. mm	Each	1544.00
17.27.12	3½ X 35 sq. mm	Each	1618.00
17.27.13	3½ X 50 sq. mm	Each	2020.00
17.27.14	3½ X 70 sq. mm	Each	2030.00
17.27.15	3½ X 95 sq. mm	Each	2034.00
17.27.16	3½ X 120 sq. mm	Each	2680.00
17.27.17	3½ X 150 sq. mm	Each	2692.00
17.27.18	3½ X 185 sq. mm	Each	2777.00
17.27.19	3½ X 240 sq. mm	Each	3899.00
17.27.20	3½ X 300 sq. mm	Each	3946.00
17.27.21	3½ X 400 sq. mm	Each	5631.00
17.27.22	4 X 16 sq. mm	Each	1272.00
17.27.23	4 X 25 sq. mm	Each	1545.00
17.27.24	4 X 35 sq. mm	Each	1619.00
17.27.25	4 X 50 sq. mm	Each	2022.00
17.28	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as required.		
17.28.1	6 sq. mm	Each	12.00
17.28.2	10 sq. mm	Each	12.50
17.28.3	16 sq. mm	Each	13.00
17.28.4	25 sq. mm	Each	13.50
17.28.5	35 sq. mm	Each	14.50
17.28.6	50 sq. mm	Each	16.50
17.28.7	70 sq. mm	Each	19.50
17.28.8	95 sq. mm	Each	25.50
17.28.9	120 sq. mm	Each	30.00
17.28.10	150 sq. mm	Each	34.00
17.28.11	185 sq. mm	Each	44.00
17.28.12	240 sq. mm	Each	60.50
17.28.13	300 sq. mm	Each	76.50
17.28.14	400 sq. mm	Each	102.00
18	H T CABLE LAYING (11KV)		



18.1	Supplying and laying one number following sizes XLPE, steel armoured, aluminium conductor power cable of 11 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
18.1.1	3 x 35 sq mm	Metre	880.00
18.1.2	3 x 50 sq mm	Metre	975.00
18.1.3	3 x 70 sq mm	Metre	1115.00
18.1.4	3 x 95 sq mm	Metre	1286.00
18.1.5	3 x 120 sq mm	Metre	1448.00
18.1.6	3 x 150 sq mm	Metre	1598.00
18.1.7	3 x 185 sq mm	Metre	1820.00
18.1.8	3 x 240 sq mm	Metre	2144.00
18.1.9	3 x 300 sq mm	Metre	2454.00
18.1.10	3 x 400 sq mm	Metre	3018.00
18.2	Supplying and laying following sizes additional one number XLPE, steel armoured, aluminium conductor power cable of 11 KV grade direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
18.2.1	3 x 35 sq mm	Metre	802.00
18.2.2	3 x 50 sq mm	Metre	895.00
18.2.3	3 x 70 sq mm	Metre	1035.00
18.2.4	3 x 95 sq mm	Metre	1206.00
18.2.5	3 x 120 sq mm	Metre	1369.00
18.2.6	3 x 150 sq mm	Metre	1516.00
18.2.7	3 x 185 sq mm	Metre	1738.00
18.2.8	3 x 240 sq mm	Metre	2060.00
18.2.9	3 x 300 sq mm	Metre	2371.00
18.2.10	3 x 400 sq mm	Metre	2934.00
18.3	Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor power cable of 11 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required.		
18.3.1	3 x 35 sq mm	Metre	681.00
18.3.2	3 x 50 sq mm	Metre	774.00
18.3.3	3 x 70 sq mm	Metre	913.00
18.3.4	3 x 95 sq mm	Metre	1085.00
18.3.5	3 x 120 sq mm	Metre	1247.00
18.3.6	3 x 150 sq mm	Metre	1394.00
18.3.7	3 x 185 sq mm	Metre	1616.00
18.3.8	3 x 240 sq mm	Metre	1939.00
18.3.9	3 x 300 sq mm	Metre	2249.00
18.3.10	3 x 400 sq mm	Metre	2812.00
18.4	Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor power cable of 11 KV grade in existing masonry open duct as required.		
18.4.1	3 x 35 sq mm	Metre	676.00
18.4.2	3 x 50 sq mm	Metre	770.00
18.4.3	3 x 70 sq mm	Metre	909.00
18.4.4	3 x 95 sq mm	Metre	1081.00
18.4.5	3 x 120 sq mm	Metre	1243.00
18.4.6	3 x 150 sq mm	Metre	1390.00
18.4.7	3 x 185 sq mm	Metre	1612.00



18.4.8	3 x 240 sq mm	Metre	1934.00
18.4.9	3 x 300 sq mm	Metre	2245.00
18.4.10	3 x 400 sq mm	Metre	2808.00
18.5	Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor power cable of 11 KV grade on surface/ existing cable tray with G.I. saddle as required.		
18.5.1	3 x 35 sq mm	Metre	703.00
18.6	Supplying and laying following sizes one number, steel armoured, copper conductor XLPE power cable of 11 KV grade on surface/ existing cable tray with M.S flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
18.6.1	3 x 50 sq mm	Metre	861.00
18.6.2	3 x 70 sq mm	Metre	1000.00
18.6.3	3 x 95 sq mm	Metre	1172.00
18.6.4	3 x 120 sq mm	Metre	1334.00
18.6.5	3 x 150 sq mm	Metre	1481.00
18.6.6	3 x 185 sq mm	Metre	1703.00
18.6.7	3 x 240 sq mm	Metre	2030.00
18.6.8	3 x 300 sq mm	Metre	2340.00
18.6.9	3 x 400 sq mm	Metre	2903.00
18.7	Laying of following sizes one number power cable of 11 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
18.7.1	Size not exceeding 35 sq. mm.	Metre	225.00
18.7.2	Size exceeding 35 sq. mm. but not exceeding 120 sq. mm	Metre	234.00
18.7.3	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	242.00
18.7.4	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	251.00
18.8	Laying of following sizes one number additional power cable of 11 KV grade direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
18.8.1	Size not exceeding 35 sq. mm.	Metre	148.00
18.8.2	Size exceeding 35 sq. mm. but not exceeding 120 sq. mm	Metre	154.00
18.8.3	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	160.00
18.8.4	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	167.00
18.9	Laying of following sizes one number power cable of 11 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required.		
18.9.1	Size not exceeding 35 sq. mm.	Metre	26.00
18.9.2	Size exceeding 35 sq. mm. but not exceeding 120 sq. mm	Metre	32.50
18.9.3	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	39.00
18.9.4	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	109.00



18.10	Laying of following sizes one number power cable of 11 KV grade in existing masonry open duct as required.		
18.10.1	Size not exceeding 35 sq. mm.	Metre	21.50
18.10.2	Size exceeding 35 sq. mm. but not exceeding 120 sq. mm	Metre	28.00
18.10.3	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	34.50
18.10.4	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	41.00
18.11	Laying and fixing of following sizes one number power cable of 11 KV grade on surface/ existing cable tray as required.		
18.11.1	Size not exceeding 35 sq. mm.	Metre	119.00
18.11.2	Size exceeding 35 sq. mm. but not exceeding 120 sq. mm	Metre	126.00
18.11.3	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	136.00
18.11.4	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	136.00
18.12	Supplying and making INDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, PILC aluminum conductor cable of 11 KV grade as required :		
18.12.1	35 sq. mm	Each	1738.00
18.12.2	50 sq. mm	Each	3669.00
18.12.3	70 sq. mm	Each	3678.00
18.12.4	90 sq. mm	Each	3681.00
18.12.5	120 sq. mm	Each	4005.00
18.12.6	150 sq. mm	Each	4018.00
18.12.7	185 sq. mm	Each	4032.00
18.12.8	240 sq. mm	Each	5290.00
18.12.9	300 sq. mm	Each	5339.00
18.12.10	400 sq. mm	Each	7299.00
18.13	Supplying and making OUTDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, PILC aluminum conductor cable of 11 KV grade as required :		
18.13.1	35 sq. mm	Each	2477.00
18.13.2	50 sq. mm	Each	5427.00
18.13.3	70 sq. mm	Each	5437.00
18.13.4	90 sq. mm	Each	5440.00
18.13.5	120 sq. mm	Each	6201.00
18.13.6	150 sq. mm	Each	6213.00
18.13.7	185 sq. mm	Each	6227.00
18.13.8	240 sq. mm	Each	7083.00
18.13.9	300 sq. mm	Each	7131.00
18.13.10	400 sq. mm	Each	8751.00
18.14	Supplying and making STRAIGHT THROUGH cable jointing with heat shrinkable cable jointing kit including ferrule and other jointing materials, for following size of 3 core, PILC aluminum conductor cable of 11 KV grade as required :		
18.14.1	35 sq. mm	Each	6023.00



18.14.2	50 sq. mm	Each	6965.00
18.14.3	70 sq. mm	Each	6974.00
18.14.4	90 sq. mm	Each	6977.00
18.14.5	120 sq. mm	Each	7626.00
18.14.6	150 sq. mm	Each	7637.00
18.14.7	185 sq. mm	Each	7652.00
18.14.8	240 sq. mm	Each	9347.00
18.14.9	300 sq. mm	Each	9391.00
18.14.10	400 sq. mm	Each	11482.00
18.15	Supplying and making INDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as required :		
18.15.1	35 sq. mm	Each	1535.00
18.15.2	50 sq. mm	Each	3685.00
18.15.3	70 sq. mm	Each	3694.00
18.15.4	90 sq. mm	Each	3697.00
18.15.5	120 sq. mm	Each	4274.00
18.15.6	150 sq. mm	Each	4287.00
18.15.7	185 sq. mm	Each	4301.00
18.15.8	240 sq. mm	Each	4544.00
18.15.9	300 sq. mm	Each	4592.00
18.15.10	400 sq. mm	Each	4943.00
18.16	Supplying and making OUTDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as required :		
18.16.1	35 sq. mm	Each	2228.00
18.16.2	50 sq. mm	Each	5037.00
18.16.3	70 sq. mm	Each	5046.00
18.16.4	90 sq. mm	Each	5049.00
18.16.5	120 sq. mm	Each	5400.00
18.16.6	150 sq. mm	Each	5413.00
18.16.7	185 sq. mm	Each	5427.00
18.16.8	240 sq. mm	Each	6089.00
18.16.9	300 sq. mm	Each	6138.00
18.16.10	400 sq. mm	Each	6503.00
18.17	Supplying and making STRAIGHT THROUGH cable jointing with heat shrinkable cable jointing kit including ferrule and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as required :		
18.17.1	35 sq. mm	Each	7194.00
18.17.2	50 sq. mm	Each	8018.00
18.17.3	70 sq. mm	Each	8028.00
18.17.4	90 sq. mm	Each	8031.00
18.17.5	120 sq. mm	Each	10149.00
18.17.6	150 sq. mm	Each	10160.00
18.17.7	185 sq. mm	Each	10175.00
18.17.8	240 sq. mm	Each	11101.00
18.17.9	300 sq. mm	Each	11145.00
18.17.10	400 sq. mm	Each	12393.00
19	H T CABLE LAYING (33KV)		



19.1	Supplying and laying one number following sizes XLPE, steel armoured, aluminium conductor power cable of 33 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
19.1.1	3 x 50 sq mm	Metre	1971.00
19.1.2	3 x 70 sq mm	Metre	2240.00
19.1.3	3 x 95 sq mm	Metre	2251.00
19.1.4	3 x 120 sq mm	Metre	2532.00
19.1.5	3 x 150 sq mm	Metre	2734.00
19.1.6	3 x 185 sq mm	Metre	3023.00
19.1.7	3 x 240 sq mm	Metre	3428.00
19.1.8	3 x 300 sq mm	Metre	3821.00
19.1.9	3 x 400 sq mm	Metre	4384.00
19.2	Supplying and laying following sizes additional one number XLPE, steel armoured, aluminium conductor power cable of 33 KV grade direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
19.2.1	3 x 50 sq mm	Metre	1891.00
19.2.2	3 x 70 sq mm	Metre	2160.00
19.2.3	3 x 95 sq mm	Metre	2171.00
19.2.4	3 x 120 sq mm	Metre	2452.00
19.2.5	3 x 150 sq mm	Metre	2652.00
19.2.6	3 x 185 sq mm	Metre	2941.00
19.2.7	3 x 240 sq mm	Metre	3344.00
19.2.8	3 x 300 sq mm	Metre	3737.00
19.2.9	3 x 400 sq mm	Metre	4300.00
19.3	Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor power cable of 33 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required.		
19.3.1	3 x 50 sq mm	Metre	1769.00
19.3.2	3 x 70 sq mm	Metre	2039.00
19.3.3	3 x 95 sq mm	Metre	2050.00
19.3.4	3 x 120 sq mm	Metre	2331.00
19.3.5	3 x 150 sq mm	Metre	2531.00
19.3.6	3 x 185 sq mm	Metre	2819.00
19.3.7	3 x 240 sq mm	Metre	3222.00
19.3.8	3 x 300 sq mm	Metre	3615.00
19.3.9	3 x 400 sq mm	Metre	4178.00
19.4	Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor power cable of 33 KV grade in existing masonry open duct as required.		
19.4.1	3 x 50 sq mm	Metre	1765.00
19.4.2	3 x 70 sq mm	Metre	2035.00
19.4.3	3 x 95 sq mm	Metre	2045.00
19.4.4	3 x 120 sq mm	Metre	2326.00
19.4.5	3 x 150 sq mm	Metre	2527.00
19.4.6	3 x 185 sq mm	Metre	2815.00
19.4.7	3 x 240 sq mm	Metre	3218.00
19.4.8	3 x 300 sq mm	Metre	3611.00
19.4.9	3 x 400 sq mm	Metre	4174.00



19.5	Supplying and laying following sizes one number, steel armoured, copper conductor XLPE power cable of 33 KV grade on surface/ existing cable tray with M.S flat clamp and steel dash fastener/ G.I. bolts and nuts as required.		
19.5.1	3 x 50 sq mm	Metre	1856.00
19.5.2	3 x 70 sq mm	Metre	2126.00
19.5.3	3 x 95 sq mm	Metre	2137.00
19.5.4	3 x 120 sq mm	Metre	2418.00
19.5.5	3 x 150 sq mm	Metre	2618.00
19.5.6	3 x 185 sq mm	Metre	2906.00
19.5.7	3 x 240 sq mm	Metre	3313.00
19.5.8	3 x 300 sq mm	Metre	3707.00
19.5.9	3 x 400 sq mm	Metre	4269.00
19.6	Laying of following sizes one number power cable of 33 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
19.6.1	Size not exceeding 120 sq. mm	Metre	238.00
19.6.2	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	246.00
19.6.3	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	255.00
19.7	Laying of following sizes one number additional power cable of 33 KV grade direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
19.7.1	Size not exceeding 120 sq. mm	Metre	158.00
19.7.2	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	165.00
19.7.3	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	171.00
19.8	Laying of following sizes one number power cable of 33 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required.		
19.8.1	Size not exceeding 120 sq. mm	Metre	36.50
19.8.2	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	43.00
19.8.3	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	113.00
19.9	Laying of following sizes one number power cable of 33 KV grade in existing masonry open duct as required.		
19.9.1	Size not exceeding 120 sq. mm	Metre	32.50
19.9.2	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	39.00
19.9.3	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	45.00
19.10	Laying and fixing of following sizes one number power cable of 33 KV grade on surface/ existing cable tray as required.		
19.10.1	Size not exceeding 120 sq. mm	Metre	130.00
19.10.2	Size exceeding 120 sq. mm. but not exceeding 185 sq. mm	Metre	141.00



19.10.3	Size exceeding 185 sq. mm. but not exceeding 400 sq. mm	Metre	141.00
19.11	Supplying and making INDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 33 KV grade as required :		
19.11.1	50 sq. mm	Each	5830.00
19.11.2	70 sq. mm	Each	5839.00
19.11.3	90 sq. mm	Each	6126.00
19.11.4	120 sq. mm	Each	6139.00
19.11.5	150 sq. mm	Each	6152.00
19.11.6	185 sq. mm	Each	9066.00
19.11.7	240 sq. mm	Each	9116.00
19.11.8	300 sq. mm	Each	10305.00
19.11.9	400 sq. mm	Each	10380.00
19.12	Supplying and making OUTDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 33 KV grade as required :		
19.12.1	50 sq. mm	Each	7732.00
19.12.2	70 sq. mm	Each	7741.00
19.12.3	90 sq. mm	Each	9471.00
19.12.4	120 sq. mm	Each	9484.00
19.12.5	150 sq. mm	Each	9497.00
19.12.6	185 sq. mm	Each	12171.00
19.12.7	240 sq. mm	Each	12220.00
19.12.8	300 sq. mm	Each	15838.00
19.12.9	400 sq. mm	Each	15913.00
19.13	Supplying and making STRAIGHT THROUGH cable jointing with heat shrinkable cable jointing kit including ferrule and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 33 KV grade as required :		
19.13.1	50 sq. mm	Each	19199.00
19.13.2	70 sq. mm	Each	19208.00
19.13.3	90 sq. mm	Each	24190.00
19.13.4	120 sq. mm	Each	24200.00
19.13.5	150 sq. mm	Each	24211.00
19.13.6	185 sq. mm	Each	33516.00
19.13.7	240 sq. mm	Each	33550.00
19.13.8	300 sq. mm	Each	37564.00
19.13.9	400 sq. mm	Each	37628.00
20	CABLE TRAYS AND ROUTE MARKER		
20.1	Supplying and installing following size powder coated, perforated M.S. cable trays with perforation not more than 17.5% rigidly suspended from the ceiling with M.S. suspenders at a distance not more than 2.5 metre and near every junction/ joint etc complete as required.		
20.1.1	100 mm width X 50 mm depth X 1.6 mm thickness	Metre	293.00
20.1.2	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	343.00
20.1.3	225 mm width X 50 mm depth X 1.6 mm thickness	Metre	418.00
20.1.4	300 mm width X 50 mm depth X 1.6 mm thickness	Metre	492.00
20.1.5	375 mm width X 50 mm depth X 2.0 mm thickness	Metre	685.00



20.1.6	450 mm width x 50 mm depth X 2.0 mm thickness	Metre	778.00
20.1.7	600 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1005.00
20.1.8	750 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1191.00
20.1.9	900 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1378.00
20.2	Supplying and fixing of following sizes powder coated, perforated, M.S. cable trays bends (horizontal) turning at 900 in same plane with perforation not more than 17.5% rigidly jointed with cable tray etc. complete as required.		
20.2.1	100 mm width X 50 mm depth X 1.6 mm thick	Each	390.00
20.2.2	150 mm width X 50 mm depth X 1.6 mm thick	Each	536.00
20.2.3	225 mm width X 50 mm depth X 1.6 mm thick	Each	756.00
20.2.4	300 mm width X 50 mm depth X 1.6 mm thick	Each	1017.00
20.2.5	375 mm width X 50 mm depth X 1.6 mm thick	Each	1634.00
20.2.6	450 mm width X 50 mm depth X 1.6 mm thick	Each	2101.00
20.2.7	600 mm width X 62.5 mm depth X 2 mm thick	Each	3075.00
20.2.8	750 mm width X 62.5 mm depth X 2 mm thick	Each	4110.00
20.2.9	900 mm width X 62.5 mm depth X 2 mm thick	Each	5298.00
20.3	Supplying and fixing of following sizes vertical, powder coated, perforated, M.S. cable trays bends (vertical) turning at 900 in another plane with perforation not more than 17.5% rigidly jointed with cable tray etc. complete as required.		
20.3.1	100 mm widthX50 mm depthX1.6 mm thick	Each	177.00
20.3.2	150 mm widthX50 mm depthX1.6 mm thick	Each	232.00
20.3.3	225 mm widthX50 mm depthX1.6 mm thick	Each	317.00
20.3.4	300 mm widthX50 mm depthX1.6 mm thick	Each	416.00
20.3.5	375 mm widthX50 mm depthX1.6 mm thick	Each	650.00
20.3.6	450 mm widthX50 mm depthX1.6 mm thick	Each	821.00
20.3.7	600 mm widthX62.5 mm depthX2 mm thick	Each	1185.00
20.3.8	750 mm widthX62.5 mm depthX2 mm thick	Each	1565.00
20.3.9	900 mm widthX62.5 mm depthX2 mm thick	Each	1982.00
20.4	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.		
		Each	1161.00
20.5	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.		
		Each	261.00
21	POLE AND POLE ERECTION		
21.1	Supply of "H" beam steel pole as per IS specifications in standard length for over head line work:		
21.1.1	"H" beam steel pole 200x200x8x12 mm standard weight 52 kg /metre	metre	2941.00
21.1.2	"H" beam steel pole 152x152x7x12 mm standard weight 37.1 kg /metre	metre	2098.00
21.1.3	"H" beam steel pole 148x100x6x9 mm standard weight 26 kg /metre	metre	1470.00
21.1.4	"H" beam steel pole 100x100x6x8 mm standard weight 21 kg /metre	metre	1188.00



21.2	Supply of steel R.S. JOIST as per IS specifications in standard length for over head line work:		
21.2.1	Designation ISMB200 size 100x200x10.8x5.7mm weight 25.4 kg /metre	metre	1361.00
21.2.2	Designation ISMB175 size 175x90x8.6x5.5mm weight 19.3 kg /metre	metre	1037.00
21.2.3	Designation ISMB150 size 150x80x7.6x4.8mm weight 14.9 kg /metre	metre	800.00
21.2.4	Designation ISMB125 size 125x75x7.6x4.4mm weight 13 kg /metre	metre	698.00
21.2.5	Designation ISMB150 size 150x100x7.0x5.4mm weight 17 kg /metre	metre	913.00
21.3	Supply of swaged steel tubular pole as per IS 2713 with base plate of size 300x300x6mm welded at bottom, necessary hole for cable entry and earthing stud welded at specified height including painting with one coat of red oxide zinc chromate primer.		
21.3.1	Designation 410 SP-2 height 7.00 metre	Each	6043.00
21.3.2	Designation 410 SP-5 height 7.50 metre	Each	6514.00
21.3.3	Designation 410 SP-8 height 7.50 metre	Each	8417.00
21.3.4	Designation 410 SP-11 height 8.00 metre	Each	6832.00
21.3.5	Designation 410 SP-14 height 8.00 metre	Each	9042.00
21.3.6	Designation 410 SP-17 height 8.50 metre	Each	7304.00
21.3.7	Designation 410 SP-20 height 8.50 metre	Each	9360.00
21.3.8	Designation 410 SP-23 height 8.50 metre	Each	11959.00
21.3.9	Designation 410 SP-26 height 9.00 metre	Each	7539.00
21.3.10	Designation 410 SP-30 height 9.00 metre	Each	10751.00
21.3.11	Designation 410 SP-32 height 9.00 metre	Each	12430.00
21.3.12	Designation 410 SP-35 height 9.50 metre	Each	10462.00
21.3.13	Designation 410 SP-38 height 9.50 metre	Each	12908.00
21.3.14	Designation 410 SP-41 height 10.00 metre	Each	10934.00
21.3.15	Designation 410 SP-44 height 10.00 metre	Each	13538.00
21.3.16	Designation 410 SP-47 height 10.00 metre	Each	17677.00
21.3.17	Designation 410 SP-50 height 11.00 metre	Each	11876.00
21.3.18	Designation 410 SP-53 height 11.00 metre	Each	14717.00
21.3.19	Designation 410 SP-56 height 11.00 metre	Each	19244.00
21.3.20	Designation 410 SP-59 height 12.00 metre	Each	15825.00
21.3.21	Designation 410 SP-62 height 12.00 metre	Each	20664.00
21.3.22	Designation 410 SP-65 height 12.00 metre	Each	24895.00
21.3.23	Designation 410 SP-68 height 13.00 metre	Each	22385.00
21.3.24	Designation 410 SP-71 height 13.00 metre	Each	26474.00
21.3.25	Designation 410 SP-73 height 14.50 metre	Each	24818.00
21.3.26	Designation 410 SP-76 height 14.50 metre	Each	30139.00
21.3.27	Designation 410 SP-77 height 16.00 metre	Each	27099.00
21.3.28	Designation 410 SP-80 height 16.00 metre	Each	32967.00
21.4	Supply of GI PIPE POLE made of "B" class GI pipe making necessary hole for cable entry and providing earthing stud (welded at specified height) including painting with one coat of red oxide zinc chromate primer.		
21.4.1	50 mm dia	Metre	342.00
21.4.2	65 mm dia	Metre	438.00
21.4.3	80 mm dia	Metre	565.00
21.5	Providing and welding M.S. base plate of size 300x300x3mm at bottom of GI/MS pipe pole.	Each	190.00



21.6	Supply of hot dipped galvanized (in single dip to average 65 micron) octogonal pole made of 3mm thick steel sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications including 3mm thick anchor plate, 4 nos 16mm dia foundation bolts of EN8 grade. (designed for wind speed upto 150km/hr)		
21.6.1	3 metre high, dia 130mm at bottom and 70mm at top, base plate size 200x200x12mm, foundation bolts 450mm long	Each	4236.00
21.6.2	4 metre high, dia 130mm at bottom and 70mm at top, base plate size 200x200x12mm, foundation bolts 450mm long	Each	5131.00
21.6.3	5 metre high, dia 130mm at bottom and 70mm at top, base plate size 200x200x12mm, foundation bolts 600mm long	Each	6026.00
21.7	Supply of hot dipped galvanized (in single dip to average 65 micron) octogonal pole made of 3mm thick steel sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications including 3mm thick anchor plate, 4 nos 20mm dia foundation bolts of EN8 grade. (designed for wind speed upto 150km/hr)		
21.7.1	6 metre high, dia 130mm at bottom and 70mm at top, base plate size 220x220x12mm, foundation bolts 600mm long	Each	6922.00
21.7.2	7 metre high, dia 130mm at bottom and 70mm at top, base plate size 220x220x12mm, foundation bolts 700mm long	Each	10273.00
21.7.3	8 metre high, dia 135mm at bottom and 70mm at top, base plate size 225x225x16mm, foundation bolts 750mm long	Each	11322.00
21.8	Supply of hot dipped galvanized (in single dip to average 65 micron) octogonal pole made of 3mm thick steel sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications including 4mm thick anchor plate, 4 nos 24mm dia foundation bolts of EN8 grade. (designed for wind speed upto 150km/hr)		
21.8.1	9 metre high, dia 155mm at bottom and 70mm at top, base plate size 260x260x16mm, foundation bolts 750mm long	Each	18306.00
21.8.2	10 metre high, dia 175mm at bottom and 70mm at top, base plate size 275x275x16mm, foundation bolts 750mm long	Each	13304.00



21.8.3	11 metre high, dia 210mm at bottom and 70mm at top, base plate size 300x300x20mm, foundation bolts 750mm long	Each	19725.00
21.8.4	12 metre high, dia 240mm at bottom and 70mm at top, base plate size 320x320x20mm, foundation bolts 850mm long	Each	21145.00
21.9	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as required.		
21.9.1	Single Over Hang 0.75 metre Long	Each	949.00
21.9.2	Single Over Hang 1.00 metre Long	Each	1030.00
21.9.3	Single Over Hang 1.50 metre Long	Each	1191.00
21.9.4	Double Over Hang 0.75 metre Long	Each	1310.00
21.9.5	Double Over Hang 1.00 metre Long	Each	1472.00
21.9.6	Double Over Hang 1.50 metre Long	Each	1796.00
21.10	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as required of length:		
21.10.1	Upto 3.0 metre	Each	1494.00
21.10.2	3.5 metre to 5.0 metre	Each	1667.00
21.10.3	5.0 metre to 6.5 metre	Each	1840.00
21.10.4	7 metre to 10 metre	Each	2513.00
21.10.5	11 metre to 12 metre	Each	2827.00
21.10.6	13 metre to 14 metre	Each	3303.00
21.10.7	15 metre to 16 metre	Each	3411.00
21.11	Erection of GI octagonal/ tubular pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as required.		
21.11.1	3 metre high	Each	445.00
21.11.2	4 metre high	Each	547.00
21.11.3	5 metre high	Each	645.00
21.11.4	6 metre high	Each	712.00
21.11.5	7 metre high	Each	756.00
21.11.6	8 metre high	Each	823.00
21.11.7	9 metre high	Each	890.00
21.11.8	10 metre high	Each	958.00
21.11.9	11 metre high	Each	1025.00
21.11.10	12 metre high	Each	1025.00
21.12	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement (minimum 90kg per cum), form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as required.	cum	4906.00



21.13	Providing and making suitable CC pole collar (muffing) in Cement Concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) of size 0.4 m dia and 0.4 m height from existing CC foundation.		
		Each	224.00
21.14	Erection of steel tubular or "H beam POLE STRUT in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and securing with holding clamps, bolts and nuts etc. as required:		
		Each	2819.00
21.15	Supplying and fixing of 32mm dia x 2 metre long G.I pipe (light) bracket for mounting street light fittings of all types on poles including bending the pipe to the required shape, 2 Nos 40x3mm flat iron clamps with bolts and nuts including wiring with 1.5 sq. mm W.P /PVC wire etc. as required.		
		Each	823.00
21.16	Supplying and fixing water tight terminal box made of 1.6mm thick M.S. sheet with detachable gland plate in bottom, hinged front open able cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S. flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint complete as required.		
21.16.1	20x15x15 cms.	Each	653.00
21.16.2	30x20x15 cms.	Each	765.00
21.17	Supplying and fixing PVC water tight terminal box of approved make and brand with detachable gland plate in bottom, hinged front openable cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 25x3mm GI flat with 2 No GI nuts bolts complete as required.		
21.17.1	250x200x125 mm for single phase	Each	799.00
21.17.2	300x200x125 mm for 3 phase	Each	934.00



19.23

Supplying erection testing and commissioning of hot dipped galvanised (single dip 86 micron) 16 metre High mast pole on existing RCC foundation with all accessories and equipments, detailed as below to withstand wind pressure upto 180km/hr and minimum following specifications:

- a) HM shaft made of not more than 2 sections of suitable lengths with telescopic stressfit joints between sections without any circumferencial welding, sheet thickness 4mm top and bottom sections, nominal dia 460mm on bottom and 150 mm on top, base flange 25mm thick 670mm dia, PCD of foundation bolts 650mm.
- b) Double drum winch for lowering & raising of lantern carriage on high mast with operatable with power tool/ manual handle attachment with a torque limiting device for safe locking of carriage.
- c) Raising/lowering type lantern carriage designed to carry specified nos of luminaries, control gear box, junction box.
- d) Top pulley assemble with weather proof cover.
- e) 3 Nos suitable length and size stainless steel wire ropes (minimum 6mm dia and 7/19 construction) for lowering & raising of lantern carriage.
- f) Suitable size and length multicore flexible copper power trailing cable (minimum 3 core 4 sqmm)
- g) Hinged service door in base section
- h) Base plate earthing terminal.
- i) Suitable arrangement for supply distribution with termination of suitable size underground cable in high mast.
- j) Lightning conductor finial made of 25mm dia 300 mm long G.I. tube having single prong.

Each

231425.00



21.19

Supplying erection testing and commissioning of hot dipped galvanised (single dip 86 micron) 20 metre High mast pole on existing RCC foundation with all accessories and equipments, detailed as below to withstand wind pressure upto 180km/hr and minimum following specifications:

- a) HM shaft made of not more than 2 sections of suitable lengths with telescopic stressfit joints between sections without any circumferencial welding, sheet thickness 4mm top and bottom sections, nominal dia 460mm on bottom and 150 mm on top, base plate 30mm thick 670mm dia, PCD of foundation bolts 650mm.
- b) Double drum winch for lowering & raising of lantern carriage on high mast with operatable with power tool/ manual handle attachment with a torque limiting device for safe locking of carriage.
- c) Raising/lowering type lantern carriage designed to carry specified nos of luminaries, control gear box, junction box.
- d) Top pulley assemble with weather proof cover.
- e) 3 Nos suitable length and size stainless steel wire ropes (minimum 6mm dia and 7/19 construction) for lowering & raising of lantern carriage.
- f) Suitable size and length multicore flexible copper power trailing cable (minimum 3 core 4 sqmm)
- g) Hinged service door in base section
- h) Base plate earthing terminal.
- i) Suitable arrangement for supply distribution with termination of suitable size underground cable in high mast.
- j) Lightning conductor finial made of 25mm dia 300 mm long G.I. tube having single prong.

Each

261603.00



21.20	<p>Supplying erection testing and commissioning of hot dipped galvanised (single dip 86 micron) 30 metre High mast pole on existing RCC foundation with all accessories and equipments, main detailed as below to withstand wind pressure upto 180km/hr and minimum following specifications:</p> <p>a) HM shaft made of not more than 3 sections of suitable lengths with telescopic stressfit joints between sections without any circumferencial welding, sheet thickness 4mm top, middle and bottom sections, nominal dia 600mm on bottom and 150 mm on top, base plate 32mm thick 840mm dia, PCD of foundation bolts 740mm.</p> <p>b) Double drum winch for lowering &amp; raising of lantern carriage on high mast with operatable with power tool/ manual handle attachment with a torque limiting device for safe locking of carriage.</p> <p>c) Raising/lowering type lantern carriage designed to carry specified nos of luminaries, control gear box, junction box.</p> <p>d) Top pulley assemble with weather proof cover.</p> <p>e) 3 Nos suitable length and size stainless steel wire ropes (minimum 6mm dia and 7/19 construction) for lowering &amp; raising of lantern carriage.</p> <p>f) Suitable size and length multicore flexible copper power trailing cable (minimum 3 core 4 sqmm)</p> <p>g) Hinged service door in base section</p> <p>h) Base plate earthing terminal.</p> <p>i) Suitable arrangement for supply distribution with termination of suitable size underground cable in high mast.</p> <p>j) Lightning conductor finial made of 25mm dia 300 mm long G.I.tube having single prong.</p>	Each	457953.00
21.21	<p>Designing and providing suitable and approved size RCC foundation for 15-30 mere high mast including seel reinforcement (minimum 90kg per cum), form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as required including laying and fixing HM foundation bolts with tam plates but excluding the cost of foundation bolts with tam plates etc complete as required.</p>	cum	4906.00
21.22	<p>Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as required:</p>		
21.22.1	upto 6 metre	Each	99.50
21.22.2	Above 6 metre and upto 8 metre	Each	165.00
21.22.3	Above 8 metre and upto 10 metre	Each	248.00
21.22.4	Above 10 metre and upto 12 metre	Each	331.00
21.22.5	Above 12 metre and upto 14 metre	Each	381.00
22	OVER HEAD LINES		
22.1	Supply and fixing following overhead line accessories.		
22.1.1	Stay rod (19/20mm dia 7.8 metre long) with anchor plate 300x300x6.4mm in CC but excluding cost of CC	Set	551.00
22.1.2	Stay wire 7/4.0mm dia	kg	41.00
22.1.3	Stay wire 7/3.15mm dia	kg	26.00



22.1.4	Turn buckle (19/20mmx60mm)	Each	253.00
22.1.5	MV Strain insulator	Each	34.50
22.1.6	Bow tightener	Each	160.00
22.1.7	MV Shackle insulator 75x90mm with G.I. bolts and nuts	Each	46.50
22.1.8	MV Shackle insulator 100x110mm with G.I. bolts and nuts	Each	80.50
22.1.9	MV Pin insulator 100x80mm with G.I. spindle and nuts etc.	Each	43.50
22.1.10	MV Pin insulator 100x80mm with G.I. spindle and nuts etc.	Each	46.00
22.1.11	Bituminous cable compound	kg	56.00
22.1.12	DC cross arm made of MS channel 100x50x5 mm @ 9.56 kg/m	Metre	606.00
22.2	Supplying and erection of stay set complete (galvanized) with 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 300mm x 300mm x 6.4 mm, thimble stay clamps, turn buckle (19/20mm x 600mm), strain insulator and specified G.I. stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.		
22.2.1	With 7/4.00 mm dia G.I. stay wire	Each	3415.00
22.2.2	With 7/3.15 mm dia G.I. stay wire	Each	3415.00
22.3	Supplying and erection of stay set complete (galvanized) with 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 300mm x 300mm x 6.4 mm, thimble stay clamps, bow tightener, strain insulator and specified G.I. stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.		
22.3.1	With 7/4.00 mm dia G.I. stay wire	Each	3321.00
22.3.2	With 7/3.15 mm dia G.I. stay wire	Each	3160.00
22.4	Supplying and erection of bow stay set complete (galvanized) 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 30cmx30cmx6.4mm, thimble stay clamps, turn buckle 19/20mm x60 cm, strain insulator and specified G.I stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50mmx50mmx6mm angle iron with 50 mm dia pulley fixed at one of the brace as required.		
22.4.1	With 7/4.00 mm dia G.I. stay wire	Each	3578.00
22.4.2	With 7/3.15 mm dia G.I. stay wire	Each	3578.00



22.5	Supplying and erection of bow stay set complete (galvanized) 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 30cmx30cmx6.4mm, thimble stay clamps, bow tightener, strain insulator and specified G.I stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50mmx50mmx6mm angle iron with 50 mm dia pulley fixed at one of the brace as required.		
22.5.1	With 7/4.00 mm dia G.I. stay wire	Each	3636.00
22.5.2	With 7/3.15 mm dia G.I. stay wire	Each	3474.00
22.6	Supplying of angle/channel iron cross arms/ bracket/ other fitting of approved size and shape including drilling of holes for insulator pins, bolts and nuts etc as required.	kg	78.50
22.7	Supplying and erection of channel iron 75x40x4.8 mm (7.14kg/m) cross arm for overhead line complete with clamps, bolts and nuts including drilling of holes for insulator pins, bolts and nuts etc as required.		
22.7.1	For 2 wire overhead line (0.55m long)	Set	432.00
22.7.2	For 4 wire overhead line (1.15m long)	Set	697.00
22.8	Supplying and fixing of channel iron 100x50x5 mm (9.56kg/m) cross arm (1.15m long) for 4 wire overhead line complete with clamps, bolts and nuts including drilling of holes for insulator pins, bolts and nuts etc as required.	Set	852.00
22.9	Supplying and erection of angle iron 50x50x6.0 (4.5kg/m) cross arm for overhead line complete with clamps, bolts and nuts including drilling of holes for insulator pins, bolts and nuts etc as required.		
22.9.1	For 2 wire overhead line (0.55m long)	Set	351.00
22.9.2	For 4 wire overhead line (1.15m long)	Set	530.00
22.10	Supplying and erection of galvanized 'D' iron complete with shackle insulator, G.I. bolts and nuts, coach screw etc. as required.		
22.10.1	Shackle insulator size 75mm x 90mm	Set	274.00
22.10.2	Shackle insulator size 100mm x 110mm	Set	308.00
22.11	Supplying and erection of shackle insulator with G.I. bolts, nuts and straps etc. as required.		
22.11.1	Size 75mm x 90mm	Each	158.00
22.11.2	Size 100mm x 110mm	Each	192.00
22.12	Supplying and erection of pin insulator with G.I. spindle and nuts etc. as required.		
22.12.1	Size 100mm x 80mm.	Each	66.00
22.12.2	Size 100mm x 110mm.	Each	68.50
22.13	Erection of shackle / pin insulator etc. as required.	Each	20.00
22.14	Supplying and erection of guard for existing overhead lines as required including split insulator as required.		
22.14.1	Cradle type	Each	44.50
22.14.2	Hexagonal type	Each	44.50
22.14.3	Ring type	Each	44.50
22.15	Supplying and fixing guard insulator or split insulator complete		
22.15.1	25x25 mm	Pair	71.50
22.15.2	37x37 mm	Pair	78.00



22.15.3	50x50 mm	Pair	84.50
22.16	Supplying and erection aerial fuse complete as required.		
22.16.1	15 amp	Each	90.50
22.16.2	30 amp	Each	113.00
22.17	Supplying and erection of MV horn gap lightening arrester.	Each	359.00
22.18	Supplying and fixing approved make 11 KV glazed porcelain pin insulator with G.I. spindle on existing pole bracket with necessary materials as required:	Each	236.00
22.19	Supplying and fixing approved make 11 KV glazed porcelain disc type insulator with tension hardware on existing pole/ support/ cross arm channel as required complete:	Each	1210.00
22.20	Supplying and erection of 11 KV gang operated air break switch on existing two pole structure with insulators and all other accessories complete including locking arrangement as required.	Set	7005.00
22.21	Supplying and erection of 11 KV D.O. fuse unit on existing two pole structure with insulators and all other accessories complete including locking arrangement as required.	Set	4127.00
22.22	Supplying and erection of three piece nonlinear resistor type lightning arrester suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.	Set	6021.00
22.23	Supplying and erection of galvanised stay set for 11 KV over head lines complete with 19/ 20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle ( 20 mm X 600 mm ), 7/ 4.00 mm dia G.I. stay wire and 11 KV strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size ) foundation including excavation and refilling etc. as required.	Set	3504.00
22.24	Supplying and fixing approved make 33 KV glazed porcelain pin insulator with G.I. spindle on existing pole bracket with necessary materials as required:	Each	323.00
22.25	Supplying and fixing approved make 33 KV (3x11KV) glazed porcelain disc type insulator with tension hardware on existing pole/ support/ cross arm channel as required complete:	Set	3520.00
22.26	Supplying and erection of 33 KV gang operated air break switch on existing two pole structure with insulators and all other accessories complete including locking arrangement as required.	Set	20435.00
22.27	Supplying and erection of 33 KV D.O. fuse unit on existing two pole structure with insulators and all other accessories complete including locking arrangement as required.	Set	14679.00



22.28	Supplying and erection of single piece nonlinear resistor type lightning arrester suitable for 3 wire, 33 KV overhead lines with rated voltage 30 KV (rms) with a nominal discharge current rating of 10 KA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.		
		Set	38506.00
22.29	Supplying and erection of galvanised stay set for 33 KV over head lines complete with 19/ 20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle ( 20 mm X 600 mm ), 7/ 4.00 mm dia G.I. stay wire and 33 KV strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.	Set	4463.00
22.30	Supplying and erection of G.I wire of size 8 SWG to 4 SWG including binding etc. as required.	kg	109.00
22.31	Supplying and erection standards all aluminium. conductor of approved make (confirming to IS 398-1961) of approved make at existing insulator at height upto 14m from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection etc complete etc. as required including clearing off obstacle if any:		
22.31.1	7/1.96mm dia	Km	18083.00
22.31.2	7/2.44mm dia	Km	26662.00
22.31.3	7/2.79mm dia	Km	35123.00
22.31.4	7/3.40mm dia	Km	51003.00
22.31.5	7/3.91mm dia	Km	66627.00
22.31.6	7/4.17mm dia	Km	73297.00
22.32	Supply and erection standard ACSR (aluminium conductor steel reinforced) confirming to IS 398-1961 of approved make at existing insulator at height upto 14m from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection etc complete etc. as required including clearing off obstacle if any:		
22.32.1	Squirrel 6/1/2.11mm dia with calculated aluminium area 20.98 sq.mm, weight 85 kg/ km (50 amps)	Km	18910.00
22.32.2	Weasel 6/1/2.59mm dia with calculated aluminium area 31.61 sq.mm , weight 128 kg/ km (80 amps)	Km	28021.00
22.32.3	Rabbit 6/1/3.35mm dia with calculated aluminium area 52.88 sq.mm, weight 214 kg/ km (100 amps)	Km	45816.00
22.32.4	Raccoon 6/1/4.09mm dia with calculated aluminium area 78.83 sq.mm , weight 319 kg/ km (198 amps)	Km	67672.00
22.32.5	Dog 6/4.72(AL), 7/1.57(S) mm dia with calculated aluminium area 105 sq.mm , weight 394 kg/ km (248 amps)	Km	83893.00
22.32.6	Wolf 30/2.59(AL), 7/2.59 mm dia with calculated aluminium area 158 sq.mm, weight 726 kg/ km(400 amps)	Km	41313.00
22.32.7	Panther 30/3(AL), 7/3(S) mm dia with calculated aluminium area 212.1 sq.mm weight 974 kg/ km (400 amps)	Km	202968.00



22.33	Supplying and erection DANGER BOARD made MS sheet duly painted and maked as per IE rules and specification.	Each	56.50
23	HOUSE SERVICE CONNECTION		
23.1	Providing and fixing for house service connection G.I. pipe 50mm dia 3.2 metre long with 2 Nos 50x50x6mm angle iron bracket on wall and 75x90mm shackle insulator with straps including accessories complete	Set	1601.00
23.2	Supplying and installing (overhead) service main with following size PVC insulated PVC sheathed aluminium conductor cables suspended with bobbin insulator on existing bearer wire in an approved manner and as per specification etc. or drawn in existing G.I. pipe bracket or conduit pipe wherever required, including connection, testing etc.		
23.2.1	2 x 6 sq. mm	Metre	54.50
23.2.2	2 x 10 sq. mm	Metre	64.00
23.2.3	2 x 16 sq. mm	Metre	73.50
23.2.4	2 x 25 sq. mm	Metre	89.00
23.2.5	4 x 10 sq. mm	Metre	85.00
23.2.6	4 x 16 sq. mm	Metre	107.00
23.2.7	3½ x 25 sq. mm	Metre	133.00
23.2.8	3½ x 35 sq. mm	Metre	162.00
23.2.9	3½ x 50 sq. mm	Metre	207.00
23.2.10	3½ x 70 sq. mm	Metre	279.00
24	H T EQUIPMENT'S & DG SETS		
24.1	Supplying and installation of outdoor type Transformer ONAN type with copper winding having following continuous KVA rating, 11 /0.415 KV, 3 Phase 50 Hz Vector group DY-11, tapings in steps of ± 2.5%, ± 5%, -- 7.5% with oil conservator, silica gel breather having connecting terminals on HV side suitable for bare conductor connection, cable end box on medium voltage side suitable for 1.1 KV 3½ core UG cable and confirming to IS:2026, on existing double pole structure or Brick /CC/RCC platform with all fittings, accessories, filled with filtered transformer oil including testing and commissioning etc. complete as required		
24.1.1	100 KVA	Each	294607.00
24.1.2	160 KVA	Each	349367.00
24.1.3	200 KVA	Each	417972.00
24.1.4	250 KVA	Each	482852.00
24.1.5	315 KVA	Each	555181.00
24.1.6	400 KVA	Each	659368.00
24.1.7	500 KVA	Each	783301.00
24.1.8	630 KVA	Each	899088.00
24.1.9	750 KVA	Each	1069838.00



24.2	Supplying and installation of outdoor type Transformer ONAN type with copper winding having following continuous KVA rating, 33 /0.415 KV 3 Phase 50 Hz Vector group DY-11, tapings in steps of $\pm 2.5\%$ , $\pm 5\%$ , -- 7.5% with oil conservator, silica gel breather having connecting terminals on HV side suitable for bare conductor connection, cable end box on medium voltage side suitable for 1.1 KV 3½ core UG cable and confirming to IS:2026, on existing Brick /CC/RCC platform with all fittings, accessories, filled with filtered transformer oil including testing and commissioning etc. complete as required		
24.2.1	500 KVA	Each	881523.00
24.2.2	630 KVA	Each	984617.00
24.2.3	750 KVA	Each	1190766.00
24.2.4	1000 KVA	Each	1543332.00
24.2.5	1250 KVA	Each	1700926.00
24.2.6	1500 KVA	Each	1806450.00
24.2.7	1750 KVA	Each	1992812.00
24.2.8	2000 KVA	Each	2175848.00
24.2.9	2500 KVA	Each	2287395.00
24.3	Supplying, installation, testing and commissioning of following capacity diesel Generating Set (alternator directly coupled to diesel engine) compete in all respect broadly comprising of following and as per specification. A. Alternator : Self excited, brush less type, of following capacity, 3 phase, 415 volts 50 Hz, 4 pole, AC alternator complete with all accessories. B. Engine : water cooled diesel engine of suitable BHP for rated alternator at 1500 rpm, turbo charged, direct injection type, 4 stroke, 4/6 cylinder including specified size fuel tank of approved design and shape duly calibrated and painted with one coat of primer and two coats of synthetic enameled paint of approved colour, residential type silencer with exhaust MS pipe (upto 2 metre beyond silencer) duly wrapped with asbestos rope of legging of specified quality and specification. C. AMF Panel : Cubical, compartmentalized, AMF panel board with all suitable size power and control contactors, switches, meters and other accessories, internal wiring, connection, inter-connection etc. for trouble free smooth functioning of DG Set complete with battery charger and leads as required. D. Base Plate : Common base plate of required size for mounting of engine alternator set fabricated from MS channel and vibration damping arrangement with cushy foot mounting i/c painting etc. as required.		
24.3.1	50 KVA	Set	825632.00
24.3.2	70 KVA	Set	985421.00
24.3.3	100 KVA	Set	1175428.00
24.3.4	125 KVA	Set	1220615.00
24.3.5	160 KVA	Set	1591851.00
24.3.6	200 KVA	Set	1987484.00
24.3.7	250 KVA	Set	2602021.00



24.3.8	300 KVA	Set	3136637.00
24.3.9	400 KVA	Set	3863303.00
24.3.10	500 KVA	Set	4646648.00
24.4	Supplying and spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in-charge.	cum	956.00
24.5	Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour etc complete.	Each	1506.00
24.6	Supplying G.I. Fire buckets with round bottom having at least 9 lit. capacity duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour and filled with dry sand and kept on provided wall hook or stand etc complete.	Each	325.00
24.7	Supply and laying SMC chequere plate in size 1m x 1m x 2.5mm (thick) to withstand 22 KV Electrical stress near LT or 11 KV HT panel etc complete.	sqm	1369.00
24.8	Supply and erecting following ISI marked Fire extenguishers on wall/ column including erecting bracket etc complete.		
24.8.1	CO2 type 2 kg	Each	5543.00
24.8.2	CO2 type 3 kg	Each	6833.00
24.8.3	CO2 type 4.5 kg	Each	8190.00
24.8.4	ABC type 4 kg	Each	4414.00
24.8.5	ABC type 6 kg	Each	5117.00
24.9	Dismentaling, re-filling and erecting following ISI marked Fire extenguishers on wall/ column including etc complete.		
24.9.1	CO2 type 2 kg	Each	2289.00
24.9.2	CO2 type 3 kg	Each	2850.00
24.9.3	CO2 type 4.5 kg	Each	3411.00
24.9.4	ABC type 4 kg	Each	1728.00
24.9.5	ABC type 6 kg	Each	2289.00
24.10	Supplying and erecting chain link mesh fencing for electric sub-station switch yard of 2.5 m approx. height from ground level using angle iron size 50 X 50 X 6 mm erected in C.C. foundation 15 X 15 X 40 cm deep at every 2 metre fitted with flat iron support of size 25 X 6 mm on top, bottom and mid way and chain link mesh 50 x 50 mm aparture and 4 mm dia G.I. hard wire securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins to the angle iron at every distance of 30 cms, by iron studs complete duly painted with one coats of red oxide and two coats of approved colour paint. (Area of fencing i.e. height x length is to be measured)	sqm	507.00



24.11	Supplying and erecting MS gate of approx. size 3.0 m (W) x 2.0 m (H) in two laps for electric sub-station switch yard fencing frame made of angle iron size 50 X 50 X 6 mm on top bottom and sides fitted with flat iron support of size 25 X 6 mm on mid way horizontally and square bar of size 8 mm at every 100mm vertically including 3 sets of heavy duty MS hinges and aldrop complete duly painted with one coats of red oxide and two coats of approved colour paint.		
		sqm	1025.00
25	LIFTS		
25.1	Supply, installation, testing & commissitioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) and fulfilling following requirments on turn key basis. A. Type : Passenger lift B. Load : 8 passenger/ 544 Kg C. Speed : 1.0 metre per second D. Contol : AC2 E. Operation : Microprosser based simplex collective selective with/without lift attendant F. Total rise : About 9 mtrs G. Landings : 4 All on same side H. Floors served : G,1,2,3 I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings J. Lift shaft size : About 1900 mm width X 1900 mm depth, finished with plaster K. Lift car size : About 1300 mm width X 1100 mm depth L. Car entrance : Minimum Clear opening 800 mm wide X 2000 mm high protected with car door M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door N. Car door : Stainless steel two pannel centre opening flush type O. Landing door : Mild steel two pannel centre opening flush type P. Door operation: Automatic electric power operated door with infra red protection Q. Car interior : Stainless steel pannel with hair line/ Job		1350000.00
25.2	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 8 persons, speed 1.0 each m/sec for every additional floor beyond initial G+3 floors. additional floor		93750.00



25.3	Supply, installation, testing & commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.	
	A. Type : Passenger lift	
	B. Load : 8 passenger/ 544 Kg	
	C. Speed : 1.5 metre per second	
	D. Control : AC2	
	E. Operation : Microprocessor based simplex collective selective with/without lift attendant	
	F. Total rise : About 9 mtrs	
	G. Landings : 4 All on same side	
	H. Floors served : G,1,2,3	
	I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings	
	J. Lift shaft size : About 1900 mm width X 1900 mm depth, finished with plaster	
	K. Lift car size : About 1300 mm width X 1100 mm depth	
	L. Car entrance : Minimum Clear opening 800 mm wide X 2000 mm high protected with car door	
	M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door	
	N. Car door : Stainless steel two panel centre opening flush type	
	O. Landing door : Mild steel two panel centre opening flush type	
	P. Door operation: Automatic electric power operated door with infra red protection	
	Q. Car interior : Stainless steel panel with hair line/ Job	1800000.00
25.4	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 8 persons, speed 1.5 each m/sec for every additional floor beyond initial G+3 floors.	
	additional floor	93750.00



25.5	<p>Supply, installation, testing &amp; commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 13 passenger/ 884 Kg</p> <p>C. Speed : 1.0 metre per second</p> <p>D. Control : AC2</p> <p>E. Operation : Microprocessor based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 2500 mm width X 1900 mm depth, finished with plaster</p> <p>K. Lift car size : About 2000 mm width X 1100 mm depth</p> <p>L. Car entrance : Minimum Clear opening 900 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 900 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel centre opening flush type</p> <p>O. Landing door : Mild steel two panel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p> <p>Q. Car interior : Stainless steel panel with hair line/ Job</p>	1650000.00
25.6	<p>Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 13 persons, speed 1.0 each m/sec for every additional floor beyond initial G+3 floors.</p> <p>additional floor</p>	101250.00



25.7	Supply, installation, testing & commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.	
	A. Type : Passenger lift	
	B. Load : 13 passenger/ 884 Kg	
	C. Speed : 1.5 metre per second	
	D. Control : AC2	
	E. Operation : Microprocessor based simplex collective selective with/without lift attendant	
	F. Total rise : About 9 mtrs	
	G. Landings : 4 All on same side	
	H. Floors served : G,1,2,3	
	I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings	
	J. Lift shaft size : About 2500 mm width X 1900 mm depth, finished with plaster	
	K. Lift car size : About 2000 mm width X 1100 mm depth	
	L. Car entrance : Minimum Clear opening 900 mm wide X 2000 mm high protected with car door	
	M. Landing entrance: Clear opening 900 mm wide X 2000 mm high protected with landing door	
	N. Car door : Stainless steel two panel centre opening flush type	
	O. Landing door : Mild steel two panel centre opening flush type	
	P. Door operation: Automatic electric power operated door with infra red protection	
	Q. Car interior : Stainless steel panel with hair line/ Job	2100000.00
25.8	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 13 persons, speed 1.5 each m/sec for every additional floor beyond initial G+3 floors.	
	additional floor	101250.00



25.9	Supply, installation, testing & commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.	
	A. Type : Passenger lift	
	B. Load : 16 passenger/ 1088 Kg	
	C. Speed : 1.0 metre per second	
	D. Control : AC2	
	E. Operation : Microprocessor based simplex collective selective with/without lift attendant	
	F. Total rise : About 9 mtrs	
	G. Landings : 4 All on same side	
	H. Floors served : G,1,2,3	
	I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings	
	J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster	
	K. Lift car size : About 2000 mm width X 1300 mm depth	
	L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door	
	M. Landing entrance: Clear opening 1000 mm wide X 2000 mm high protected with landing door	
	N. Car door : Stainless steel two panel centre opening flush type	
	O. Landing door : Mild steel two panel centre opening flush type	
	P. Door operation: Automatic electric power operated door with infra red protection	
	Q. Car interior : Stainless steel panel with hair line/ Job	2100000.00
25.10	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 16 persons, speed 1.0 each m/sec for every additional floor beyond initial G+3 floors.	
	additional floor	112500.00



25.11	<p>Supply, installation, testing &amp; commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 16 passenger/ 1088 Kg</p> <p>C. Speed : 1.5 metre per second</p> <p>D. Control : AC2</p> <p>E. Operation : Microprocessor based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster</p> <p>K. Lift car size : About 2000 mm width X 1300 mm depth</p> <p>L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 1000 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel centre opening flush type</p> <p>O. Landing door : Mild steel two panel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p> <p>Q. Car interior : Stainless steel panel with hair line/ Job</p>	2550000.00
25.12	<p>Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in automatic lift for 16 persons , speed 1.5 each m/sec for every additional floor beyond initial G+3 floors. additional floor</p>	112500.00



25.13	<p>Supply, installation, testing &amp; commissitioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) and fulfilling following requirments on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 4 passenger/ 272 Kg</p> <p>C. Speed : 1.0 metre per second</p> <p>D. Contol : AC2</p> <p>E. Operation : Microprosser based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 1400 mm width X 1200 mm depth, finished with plaster</p> <p>K. Lift car size : About 1000 mm width X 770 mm depth</p> <p>L. Car entrance : Clear opening 760 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 760 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two pannel centre opening flush type</p> <p>O. Landing door : Mild steel two pannel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p>	Job	1575000.00
25.14	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in MACHINE ROOM LESS TYPE automatic each lift for 4 persons, speed 1.0 m/sec for every additional additional floor beyond initial G+3 floors.	floor	78750.00



25.15	<p>Supply, installation, testing &amp; commissioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 6 passenger/ 408 Kg</p> <p>C. Speed : 1.0 metre per second</p> <p>D. Control : AC2</p> <p>E. Operation : Microprocessor based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 1800 mm width X 1680 mm depth, finished with plaster</p> <p>K. Lift car size : About 1100 mm width X 1000 mm depth</p> <p>L. Car entrance : Clear opening 800 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel centre opening flush type</p> <p>O. Landing door : Mild steel two panel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p>	Job	1725000.00
25.16	Add or deduct for providing all additional parts/equipments or for enhancing the capacity of parts/equipments in MACHINE ROOM LESS TYPE automatic each lift for 6 persons, speed 1.0 m/sec for every additional additional floor beyond initial G+3 floors.	floor	86250.00



25.17	<p>Supply, installation, testing &amp; commissitioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981and fulfilling following requirments on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 8 passenger/ 544 Kg</p> <p>C. Speed : 1.5 metre per second</p> <p>D. Contol : AC2</p> <p>E. Operation : Microprosser based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 1400 mm width X 1200 mm depth, finished with plaster</p> <p>K. Lift car size : About 1800 mm width X 1760 mm depth</p> <p>L. Car entrance : Clear opening 800 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two pannel centre opening flush type</p> <p>O. Landing door : Mild steel two pannel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p>	Job	1950000.00
25.18	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in MACHINE ROOM LESS TYPE automatic each lift for 8 persons, speed 1.5 m/sec for every additional additional floor beyond initial G+3 floors.	floor	93750.00



25.19	<p>Supply, installation, testing &amp; commissioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.</p> <p>A. Type : Passenger lift</p> <p>B. Load : 13 passenger/ 884 Kg</p> <p>C. Speed : 1.5 metre per second</p> <p>D. Control : AC2</p> <p>E. Operation : Microprocessor based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 9 mtrs</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : G,1,2,3</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 2500 mm width X 1900 mm depth, finished with plaster</p> <p>K. Lift car size : About 2000 mm width X 1100 mm depth</p> <p>L. Car entrance : Minimum Clear opening 900 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 900 mm wide X 2000 mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel centre opening flush type</p> <p>O. Landing door : Mild steel two panel centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra red protection</p>	Job	2250000.00
25.20	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in MACHINE ROOM LESS TYPE automatic each lift for 13 persons, speed 1.5 m/sec for every additional additional floor beyond initial G+3 floors.	floor	101250.00



25.21	Supply, installation, testing & commissioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.		
	A. Type : Passenger lift		
	B. Load : 16 passenger/ 1088 Kg		
	C. Speed : 1.5 metre per second		
	D. Control : AC2		
	E. Operation : Microprocessor based simplex collective selective with/without lift attendant		
	F. Total rise : About 9 mtrs		
	G. Landings : 4 All on same side		
	H. Floors served : G,1,2,3		
	I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings		
	J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster		
	K. Lift car size : About 2000 mm width X 1300 mm depth		
	L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door		
	M. Landing entrance: Clear opening 1000 mm wide X 2000 mm high protected with landing door		
	N. Car door : Stainless steel two panel centre opening flush type		
	O. Landing door : Mild steel two panel centre opening flush type		
	P. Door operation: Automatic electric power operated door with infra red protection	Job	2700000.00
25.22	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in MACHINE ROOM LESS TYPE automatic each lift for 16 persons, speed 1.5 m/sec for every additional additional floor beyond initial G+3 floors.	floor	112500.00
26	WATER SUPPLY PUMPS		
26.1	Supplying, installation, testing and commissioning of centrifugal type mono-block self priming electric pump set suitable for single phase, 230 volts AC supply including connection of suction and delivery line etc. as required.		
26.1.1	0.25 HP single phase	Each	2938.00
26.1.2	0.50 HP single phase	Each	3495.00
26.1.3	1.0 HP single phase	Each	5000.00
26.1.4	2.0 HP single phase	Each	9938.00
26.2	Supplying, installation, testing and commissioning of centrifugal type mono-block electric pump set for water supply system having following capacity three phase, 415 volts AC induction motor and pump including suitable channel iron base frame, suitable C.C. foundation and connection of suction and delivery line etc. as required.		
26.2.1	3 HP, 420 LPM, 20 m head, suction size 65 mm, delivery size 50 mm	Each	12217.00



26.2.2	5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm	Each	16398.00
26.2.3	7.5 HP, 650 LPM, 30 m head, suction size 80 mm, delivery size 65 mm	Each	21375.00
26.3	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required.		
26.3.1	1.0 HP, single phase	Each	15866.00
26.3.2	1.5 HP, single phase	Each	17633.00
26.3.3	2.0 HP, single phase	Each	19886.00
26.3.4	3.0 HP, three phase	Each	22669.00
26.3.5	5.0 HP, three phase	Each	26110.00
26.3.6	6.0 HP, three phase	Each	27729.00
26.3.7	7.5 HP, three phase	Each	34036.00
26.3.8	10 HP, three phase	Each	38769.00
26.3.9	12.5 HP, three phase	Each	45184.00
26.3.10	15 HP, three phase	Each	48787.00
26.4	Supplying and fixing of following sizes 'B' class G I pipe with welded steel flange of suitable size at both the end of every pipe length, fixing with submersible pump and lowering with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required.		
26.4.1	100 mm dia.	Metre	1115.00
26.4.2	80 mm dia.	Metre	744.00
26.4.3	65 mm dia.	Metre	484.00
26.4.4	50 mm dia.	Metre	382.00
26.4.5	40 mm dia.	Metre	296.00
26.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as required.		
26.5.1	100 mm dia.	Metre	1153.00
26.5.2	80 mm dia.	Metre	758.00
26.5.3	65 mm dia.	Metre	568.00
26.5.4	50 mm dia.	Metre	463.00
26.5.5	40 mm dia.	Metre	333.00
26.5.6	32 mm dia.	Metre	298.00
26.5.7	25 mm dia.	Metre	250.00
26.6	Supplying and fixing following dia HDPE pipe PE-80 Grade (8kg/sqcm) in single length in the suction/ delivery line of water supply pump etc. as required.		
26.6.1	32 mm outer dia	Metre	62.50
26.6.2	50 mm outer dia	Metre	132.00
26.6.3	63 mm outer dia	Metre	198.00
26.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required.		
26.7.1	100 mm dia.	Each	5413.00
26.7.2	80 mm dia.	Each	2376.00
26.7.3	65 mm dia.	Each	1359.00
26.7.4	50 mm dia.	Each	1048.00



26.7.5	40 mm dia.	Each	659.00
26.7.6	32 mm dia.	Each	552.00
26.7.7	25 mm dia.	Each	469.00
26.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as required.		
26.8.1	100 mm dia.	Each	4740.00
26.8.2	80 mm dia.	Each	2976.00
26.8.3	65 mm dia.	Each	2099.00
26.8.4	50 mm dia.	Each	1289.00
26.8.5	40 mm dia.	Each	867.00
26.8.6	32 mm dia.	Each	652.00
26.8.7	25 mm dia.	Each	461.00
26.9	Supply, installation, testing and commissioning of 10-15 HP 3 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 10/12.5/15 HP 3 phase automatic Star-delta starter with over load and no volt relay 1 No c) 32 A "C" curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.		
		Each	8450.00
26.10	Supply, installation, testing and commissioning of 5-7.5 HP 3 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 5/7.5 HP 3 phase DOL starter with over load and no volt relay 1 No c) 32 A "C" curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.		
		Each	4253.00
26.11	Supply, installation, testing and commissioning of 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set		
		Each	4125.00



26.12	Supplying and fixing M.S. clamp 50 cm long made of 50mmx5mm thick M.S. Flat for holding the pipes and submersible pump set as required.	Metre	314.00
26.13	Supplying and fixing 300 mm dia 2 mm thick M.S. sheet cover with 3 cm edge in two past on tube well bore pipe as required	Each	393.00
26.14	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as required		
26.14.1	3x1.5 sqmm	Metre	42.50
26.14.2	3x2.5 sqmm	Metre	67.50
26.14.3	3x4.0 sqmm	Metre	99.00
26.14.4	3x6.0 sqmm	Metre	146.00
26.15	Supplying and making water proof joint with heat shrinkable joint kit including copper ferrules for following size of 3 core submersible copper conductor cable of 1.1 KV grade as required.		
26.15.1	3x1.5 sqmm	Each	273.00
26.15.2	3x2.5 sqmm	Each	275.00
26.15.3	3x4.0 sqmm	Each	281.00
26.15.4	3x6.0 sqmm	Each	467.00
26.16	Supplying and laying of approved make stainless steel wire rope of 6 mm dia for support of submersible pump set complete with tying to pump set and pump holding clamp.	Metre	16.50
27	AIR CONDITIONER (WT/ Split)		
27.1	Supplying of approved make window type Air Conditioner unit as required.		
27.1.1	1.0 ton capacity 3000 kcal / hr (3 star).	Each	21493.00
27.1.2	1.5 ton capacity 4500 kcal / hr (3 star).	Each	24701.00
27.1.3	2.0 ton capacity 6000 kcal / hr (non star)	Each	27735.00
27.1.4	1.0 ton capacity 3000 kcal / hr (5 star).	Each	24527.00
27.1.5	1.5 ton capacity 4500 kcal / hr (5 star).	Each	28602.00
27.1.6	2.0 ton capacity 6000 kcal / hr (2 star).	Each	29469.00
27.2	Installation of window type Air Conditioner unit in existing window/ opening including providing and fixing necessary good quality wooden support frame of size 38 mm x 75 mm and 12mm ply wood to cover left out space of window, testing and commissioning etc, as required.	Each	561.00
27.3	Supplying of approved make split type Air Conditioner unit with cooling unit and condensing unit with standard length of upto 3 metre of copper piping with insulation etc complete as required:		
27.3.1	1.0 ton split type capacity 3000 kcal / hr (3 star).	Each	27302.00
27.3.2	1.5 ton split type capacity 4500 kcal / hr (3 star).	Each	29903.00
27.3.3	2.0 ton split type capacity 6000 kcal / hr (3 star).	Each	39873.00
27.3.4	1.0 ton split type capacity 3000 kcal / hr (5 star).	Each	29469.00
27.3.5	1.5 ton split type capacity 4500 kcal / hr (5 star).	Each	35538.00
27.3.6	2.0 ton split type capacity 6000 kcal / hr (5 star).	Each	43341.00
27.3.7	2.0 ton Cassette split type capacity 6000 kcal / hr.	Each	84660.00
27.3.8	3.0 ton Cassette split type capacity 9000 kcal / hr.	Each	103224.00



27.4	Installation of split type Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as required. (Extra length of copper piping and power cable shall be paid extra on linear basis)	Each	2076.00
27.5	Installation of cassette type type Air Conditioner unit, cooling unit inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as required. (Extra length of copper piping and power cable shall be paid extra on linear basis)	Each	3927.00
27.6	Supplying and fixing of approved make ductable split type Air Conditioner unit with single/ multi compressure unit and fixing cooling unit at desired location with hanging/ fixing arrangement, condensing unit on out side wall/ ceiling/ floor at desired location having standard length of/ upto 3 metre of copper piping with insulation and drainage pipe upto 1.5 metre length, necessary wiring but excluding ducting work etc complete as required.		
27.6.1	5.0/5.5 ton capacity	Each	134696.00
27.6.2	7.5/8.0 ton capacity	Each	205214.00
27.6.3	11.0 ton capacity	Each	261875.00
27.6.4	16.5/17.0 ton capacity	Each	420413.00
27.7	Supply and fixing of approved make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as required.		
27.7.1	4 KVA	Each	3972.00
27.7.2	5 KVA	Each	4533.00
27.8	Dismantaling, Shifting, Re-installation, testing and commissioning of split type Air Conditioner unit with indoor and out door units and frames at desired locations with existing length of copper piping with insulation, necessary wiring with existing cable etc complete as required.	Each	2805.00
27.9	Dismantaling, Shifting, Re-installation, testing and commissioning of Window type Air Conditioner unit at desired location with necessary wiring with existing cable etc complete as required.	Each	1122.00
27.10	Supply, connecting and fixing extra length of copper piping for split type air conditioners of following dia and approved quality with insulation sleeve etc complete as required		
27.10.1	5/8 "	Metre	377.00
27.10.2	1/2 "	Metre	243.00
27.10.3	1/4 "	Metre	186.00



27.11	Supplying and fixing good quality powder coated MS frame for installation of out door unit of split type Air Conditioner at desired location with atleast 6 nos steel fastners etc complete as required	Set	437.00
27.12	Supplying, connecting and fixing 15mm dia PVC flexible drain pipe (reinforced with nylon threads) in drain outlet of split type air conditioners etc complete as required	Metre	13.50
27.13	Servicing of window type air conditioner unit of all capacity by cleaning of cooling and condensing coils, filters, grills and other parts, oiling/ greasing of fan motor including testing etc as required.	Each	430.00
27.14	Servicing of split-type air conditioner unit of all capacity by cleaning of cooling and condensing units, filters, grills and other parts, oiling/ greasing of fan motor including testing etc as required.	Each	629.00
27.15	Replacing the burnt/ wornout sealed compressor of Window/ split type AC unit with company repaired compressor including filling of refrigerent testing for leakage, testing and commissioning of AC unit etc as required.		
27.15.1	1.5 ton window type AC	Each	8705.00
27.15.2	2.0 ton window type AC	Each	9401.00
27.15.3	1.5 ton split type AC	Each	9155.00
27.15.4	2.0 ton split type AC	Each	9850.00
27.16	Supply and filling for topping up required quantity of R-22 refrigerent in existing window/ split air conditioners as per manufacturers specification including checking for leakage before and after filling etc complete as required.		
27.16.1	1.5 ton window type AC	Each	345.00
27.16.2	2.0 ton window type AC	Each	358.00
27.16.3	1.5 ton split type AC	Each	415.00
27.16.4	2.0 ton split type AC	Each	449.00
27.17	Supply and filling up required quantity of R-22 refrigerent in existing window/ split air conditioners as per manufacturers specification including checking for leakage before and after filling, flushing the line with R-22 etc complete as required.		
27.17.1	1.5 ton window type AC	Each	784.00
27.17.2	2.0 ton window type AC	Each	851.00
27.17.3	1.5 ton split type AC	Each	897.00
27.17.4	2.0 ton split type AC	Each	964.00
27.18	Supplying, fixing, testing and commissioning of following 440 volts capacitors in WT/ Split / Tower airconditioners at all locations as required.		
27.18.1	36 MFD	Each	499.00
27.18.2	45 MFD	Each	530.00
27.18.3	50 MFD	Each	451.00
27.18.4	60 MFD	Each	599.00
27.19	Supplying and replacing following spares/ accessories in window/ split AC		
27.19.1	Electronic control PCB for WT/AC	Each	1211.00
27.19.2	Electronic control PCB for Split/AC	Each	1548.00
27.19.3	Digital Display Unit for WT/Split AC	Each	1884.00
27.19.4	Blower motor for indoor unit of Split AC	Each	1604.00



27.19.5	Fan motor for outdoor unit of Split AC	Each	1828.00
27.19.6	Fan motor blade for outdoor unit of Split AC	Each	594.00
27.19.7	Swing motor for WT/ Split AC	Each	426.00
27.19.8	Remote for WT/ split AC	Each	415.00
27.19.9	Dead Nut 1/4"	Each	67.00
27.19.10	Dead Nut 1/2"	Each	78.50
27.19.11	Dead Nut 5/8"	Each	101.00
27.20	Supplying and fixing wall mounted storage type electric geyser, complete with inner copper container, heating element, thermostat, indicating lamp including inlet / outlet water pipe connection, electric connection testing and commissioning etc. as required.		
27.20.1	15 Ltr. Capacity with 1000 watt heater element 4 star	Each	6524.00
27.20.2	25 Ltr. Capacity with 1500 watt heater element 4 star	Each	7311.00
27.20.3	15 Ltr. Capacity with 1000 watt heater element 5 star	Each	6998.00
27.20.4	25 Ltr. Capacity with 1500 watt heater element 5 star	Each	7803.00
27.21	Installation, testing and commissioning of wall mounted storage type electric geyser including inlet / outlet water pipe connection, electric connection etc. as required.	Each	210.00
27.22	Annual servicing of all type and capacity of window type air conditioners as per manufacturers specification including checking for leakage etc complete as required	Each	187.00
27.23	Annual servicing of all type and capacity of split air conditioners (both condenser and cooling unit) as per manufacturers specification including checking for leakage etc complete as required	Set	187.00
27.24	Providing and replacing set of 3 nos wiremesh and 3 Nos wood wool/ Khas pads of size upto 55cm x 75cm (NS) of air cooler etc complete.	Set	207.00
27.25	Repainting of air cooler by scraping of old paint, making surface even, painting with red oxide primer & two coats of enamel paint of required shade complete.	Each	372.00
27.26	Providing and replacing burnt/ damaged water pump in existing air cooler etc complete.	Each	201.00
28	HVAC (ONLY PLUMBING, DUCTING & AHU)		



28.1	<p>Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with 80 kg/cum density resin bonded fiber glass pipe section insulation covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints and repairing of damage to building etc. as per specifications and as required. Note: The Pipes of sizes 150mm &amp; below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.</p>		
28.1.1	400mm dia. (75mm insulation)	Metre	9628.00
28.1.2	350mm dia. (75mm insulation)	Metre	6547.00
28.1.3	300mm dia. (75mm insulation)	Metre	5807.00
28.1.4	250mm dia. (75mm insulation)	Metre	4912.00
28.1.5	200mm dia. (75mm insulation)	Metre	4053.00
28.1.6	150mm dia. (50mm insulation)	Metre	2588.00
28.1.7	125mm dia. (50mm insulation)	Metre	2198.00
28.1.8	100mm dia. (50mm insulation)	Metre	1869.00
28.1.9	80mm dia. (50mm insulation)	Metre	1387.00
28.1.10	65mm dia. (50mm insulation)	Metre	1192.00
28.1.11	50mm dia. (50mm insulation)	Metre	974.00
28.1.12	40mm dia. (50mm insulation)	Metre	804.00
28.1.13	32mm dia. (50mm insulation)	Metre	714.00
28.1.14	25mm dia. (50mm insulation)	Metre	625.00
28.2	<p>Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of class 'O' insulation applied by adhesive confirming to standard specifications and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints and repairing of damage to building etc. as per specifications and as required complete in all respect. Note:-The Pipes of sizes 150mm &amp; below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.</p>		
28.2.1	400mm dia. (32 mm thick insulation)	Metre	8701.00
28.2.2	350mm dia. (32 mm thick insulation)	Metre	5690.00
28.2.3	300mm dia. (32 mm thick insulation)	Metre	5123.00
28.2.4	250mm dia. (32 mm thick insulation)	Metre	4434.00
28.2.5	200mm dia. (32 mm thick insulation)	Metre	3520.00



28.2.6	150mm dia. (32 mm thick insulation)	Metre	2433.00
28.2.7	125mm dia. (32 mm thick insulation)	Metre	2138.00
28.2.8	100mm dia. (32 mm thick insulation)	Metre	1717.00
28.2.9	80mm dia. (32 mm thick insulation)	Metre	1264.00
28.2.10	65mm dia. (32 mm thick insulation)	Metre	1046.00
28.2.11	50mm dia. (32 mm thick insulation)	Metre	885.00
28.2.12	40mm dia. (32 mm thick insulation)	Metre	701.00
28.2.13	32mm dia. (19 mm thick insulation)	Metre	539.00
28.2.14	25mm dia. (19 mm thick insulation)	Metre	444.00
28.3	Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping plumbing inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with fire retardant quality expanded polystyrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints repairing of damage to building etc. as per specifications and as required complete in all respect. Note:-The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.		
28.3.1	400mm dia. (75 mm insulation)	Metre	8843.00
28.3.2	350mm dia. (75 mm insulation)	Metre	5826.00
28.3.3	300mm dia. (75 mm insulation)	Metre	5281.00
28.3.4	250mm dia. (75 mm insulation)	Metre	4486.00
28.3.5	200mm dia. (75 mm insulation)	Metre	3706.00
28.3.6	150mm dia. (50 mm insulation)	Metre	2433.00
28.3.7	125mm dia. (50mm insulation)	Metre	2034.00
28.3.8	100mm dia. (50mm insulation)	Metre	1707.00
28.3.9	80mm dia. (50mm insulation)	Metre	1307.00
28.3.10	65mm dia. (50mm insulation)	Metre	1126.00
28.3.11	50mm dia. (50mm insulation)	Metre	923.00
28.3.12	40mm dia. (50mm insulation)	Metre	763.00
28.3.13	32mm dia. (50mm insulation)	Metre	680.00
28.3.14	25mm dia. (50mm insulation)	Metre	598.00
28.4	Supplying, laying/ fixing of following thickness resin bonded fiber glass pipe section insulation having density 80 kg/cum duly covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) on existing pipe and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints etc. as per specifications and as required.		
28.4.1	75mm	sqm	1854.00
28.4.2	50mm	sqm	1608.00
28.4.3	40mm	sqm	1513.00
28.4.4	25mm	sqm	1275.00



28.5	Supplying, laying/ fixing of following thickness closed cell elastometric nitrile rubber of class 'O' applied by adhesive confirming to standard specifications and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints etc. as per specifications and as required complete in all respect.		
28.5.1	32mm	sqm	1272.00
28.5.2	19mm	sqm	914.00
28.6	Supplying, laying/ fixing of following thickness insulation with fire retardant quality expanded polystyrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date ) at joints repairing etc. as per specifications and as required complete in all respect.		
28.6.1	75mm	sqm	1346.00
28.6.2	50mm	sqm	1033.00
28.7	Supplying, fixing, testing and commissioning of following size BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/ hot water line duly insulated to the same specifications as the connected piping and adequately supported as per specifications.		
28.7.1	200 mm dia	Each	10173.00
28.7.2	150mm dia.	Each	5824.00
28.7.3	125mm dia.	Each	5009.00
28.7.4	100mm dia.	Each	4574.00
28.7.5	80mm dia.	Each	3217.00
28.7.6	65mm dia.	Each	2863.00
28.7.7	50mm dia.	Each	2616.00
28.7.8	40mm dia.	Each	2332.00
28.8	Supplying, fixing, testing and commissioning of following size BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled water/ hot water line duly insulated to the same specifications as the connected piping and adequately supported as per specifications.		
28.8.1	200mm dia	Each	46608.00
28.8.2	150mm dia.	Each	22515.00
28.8.3	125mm dia.	Each	15236.00
28.8.4	100mm dia.	Each	11045.00
28.8.5	80mm dia.	Each	6790.00
28.8.6	65 mm dia	Each	6502.00
28.8.7	50mm dia.	Each	5853.00
28.8.8	40 mm dia	Each	2808.00



28.9	Supplying, fixing, testing and commissioning of following size NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled water/ hot water line duly insulated to the same specifications as the connected piping and adequately supported as per specifications.		
28.9.1	200 mm dia	Each	8754.00
28.9.2	150mm dia.	Each	5691.00
28.9.3	125mm dia.	Each	4447.00
28.9.4	100mm dia	Each	3225.00
28.9.5	80mm dia.	Each	2334.00
28.9.6	65mm dia	Each	1982.00
28.10	Supplying, fixing, testing and commissioning of following size Y-STRAINER of Ductile CI Body flanged ends with stainless steel strainer for for chilled water/ hot water line duly insulated to the same specifications as the connected piping and adequately supported as per specifications.		
28.10.1	200mm dia	Each	19627.00
28.10.2	150mm dia.	Each	9658.00
28.10.3	125mm dia.	Each	9052.00
28.10.4	100mm dia	Each	6162.00
28.10.5	80mm dia	Each	4493.00
28.10.6	65mm dia.	Each	3920.00
28.10.7	50mm dia.	Each	3073.00
28.10.8	40mm dia.	Each	2141.00
28.11	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required		
		Each	871.00
28.12	Providing & fixing in position the mercury in glass industrial type thermometers.		
		Each	639.00
28.13	Supplying, fixing, testing and commissioning of CONDENSER WATER PIPES of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends,tees etc.but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect. Note:-The Pipes size 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. And from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.		
28.13.1	300mm dia.	Metre	3830.00
28.13.2	250mm dia	Metre	3223.00
28.13.3	200mm dia.	Metre	2621.00
28.13.4	150mm dia.	Metre	1727.00
28.13.5	125mm dia.	Metre	1473.00
28.13.6	100mm dia.	Metre	1218.00



28.14	Supplying, fixing, testing and commissioning of following BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O-ring & PN 16 pressure rating for condenser water circulation as per specifications.		
28.14.1	200mm dia.	Each	9627.00
28.14.2	150mm dia.	Each	5397.00
28.14.3	125mm dia.	Each	4643.00
28.14.4	100mm dia.	Each	4200.00
28.14.5	80mm dia.	Each	2976.00
28.14.6	65mm dia.	Each	2664.00
28.14.7	50mm dia.	Each	2408.00
28.14.8	40mm dia.	Each	2149.00
28.15	Supplying, fixing, testing and commissioning of following NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for condenser water circulation as per specifications.		
28.15.1	200mm dia.	Each	8207.00
28.15.2	150mm dia.	Each	5265.00
28.15.3	125mm dia.	Each	4079.00
28.15.4	100mm dia.	Each	2888.00
28.15.5	80mm dia.	Each	2095.00
28.15.6	65mm dia.	Each	1767.00
28.16	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.		
28.16.1	Thickness 0.63 mm sheet	sqm	547.00
28.16.2	Thickness 0.80 mm sheet	sqm	680.00
28.16.3	Thickness 1.00 mm sheet	sqm	780.00
28.16.4	Thickness 1.25 mm sheet	sqm	957.00
28.17	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.		
28.17.1	Thickness 0.63 mm sheet	sqm	494.00
28.17.2	Thickness 0.80 mm sheet	sqm	617.00
28.17.3	Thickness 1.00 mm sheet	sqm	792.00
28.17.4	Thickness 1.25 mm sheet	sqm	918.00
28.18	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.		
		sqm	5047.00
28.19	Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room.		
28.19.1	Damper	sqm	5448.00



28.19.2	Actuator	sqm	4650.00
28.20	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.	sqm	6038.00
28.21	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	sqm	3812.00
28.22	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sqm	8247.00
28.23	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sqm	5285.00
28.24	Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc. complete as required as per specifications.		
28.24.1	200 mm dia.	Metre	345.00
28.25	Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.		
28.25.1	Fire damper	sqm	6631.00
28.25.2	Actuator	sqm	6135.00
28.26	Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m <sup>3</sup> , with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.	sqm	457.00
28.27	Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25 X 50 X50 X 50 X 25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications.	sqm	489.00



28.28	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation on existing duct after applying two coats of cold setting adhesive (CPR X compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.		
28.28.1	19mm	sqm	702.00
28.28.2	25mm	sqm	889.00
28.29	Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct ) of density 24 kg/cu.m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting butting all joints and laced with GI wire complete as per specifications and as required. (for indoor applications).		
		sqm	283.00
28.30	Supplying and fixing 50mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting & butting all joints and laced with GI wire complete and finally covered with one layer of tar felt stuck with hot bitumen as per specifications and as required. (for outdoor applications)		
		sqm	328.00
28.31	Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
28.31.1	2500CFM	Set	72846.00
28.31.2	3000CFM	Set	85701.00
28.31.3	4000CFM	Set	96608.00
28.31.4	5000CFM	Set	120526.00
28.31.5	6000CFM	Set	140939.00
28.31.6	7000CFM	Set	158391.00



28.31.7	8000CFM	Set	175842.00
28.31.8	9000CFM	Set	192437.00
28.31.9	10000CFM	Set	209032.00
28.31.10	11000CFM	Set	229600.00
28.31.11	12000CFM	Set	250168.00
28.32	Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
28.32.1	2500CFM	Set	65912.00
28.32.2	3000CFM	Set	77364.00
28.32.3	4000CFM	Set	86324.00
28.32.4	5000CFM	Set	106814.00
28.32.5	6000CFM	Set	125045.00
28.32.6	7000CFM	Set	139887.00
28.32.7	8000CFM	Set	154729.00
28.32.8	9000CFM	Set	168636.00
28.32.9	10000CFM	Set	182543.00
28.32.10	11000CFM	Set	197891.00
28.32.11	12000CFM	Set	218459.00
29	FIRE ALARM SYSTEM		
29.1	Supply, installation, testing & commissioning of Networkable Intelligent Addressable Fire Alarm Control Panel (EN/UL Approved) having following no of loop, each loop capable of connecting upto 99 detector and 99 devices, with minimum 200 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM) to store 20000 events, including Loop driver cards, network card, in-built battery backup for 72 hrs in standby mode & 30 min in alarm condition mode in metal enclosure and other required accessories		
29.1.1	1 Loop	Each	84204.00
29.1.2	2 Loop	Each	110318.00
29.1.3	4 Loop	Each	162013.00



29.2	Supply, installation, testing & commissioning of Networkable Intelligent Addressable Fire Alarm Control Panel (EN/UL Approved) having provision of 10 loops but with following no of loop cards, each loop capable of connecting upto 99 detector and 99 devices, with minimum 200 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM) to store 20000 events, including Loop driver cards, network card, in-built battery backup for 72 hrs in standby mode & 30 min in alarm condition mode in metal enclosure and other required accessories.	Each	239290.00
29.3	Supply, installation, testing & commissioning of Networkable Intelligent Addressable additional one loop card in existing Fire Alarm Control Panel (EN/UL Approved) having provision of 10 loops.	Each	53824.00
29.4	Supply, installation, testing & commissioning of Networkable Intelligent Analogue Addressable Fire Alarm Active Repeater Panel with 40 characters LCD display metal enclosure & required accessories.	Each	58091.00
29.5	Supply, Installation, Testing and Commissioning of Work station with PC with Printer and with GUI based network software (License FOR 250 devices) capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of the various sensors locations or device locations with Required communication Network modules to Run the GUI based Building Integrator.	Each	134836.00
29.6	Supply, installation, testing & commissioning of follwing type Addressable detectors (EN/UL approved) with detector mounting base and other required accessories.		
29.6.1	Photoelectric type Smoke detectors	Each	2946.00
29.6.2	Multi-Sensor combined (Photo + Thermal) detectors	Each	3585.00
29.6.3	Rate of Rise Thermal (Heat) detectors	Each	3201.00
29.7	Supply, installation, testing & commissioning of follwing Addressable devices (EN/UL approved) with mounting base and other required accessories.		
29.7.1	Break Glass Type Manual Call Points in having "Break glass" message embedded on the glass.	Each	3266.00
29.7.2	Pull Station Type Manual Call Points.	Each	4673.00
29.7.3	Isolator module (Fault / Loop)	Each	2667.00
29.7.4	Monitor Module	Each	3307.00
29.7.5	Control Module (for access triping off)	Each	3435.00
29.7.6	Response indicator	Each	662.00
29.8	Supply, installation, testing & commissioning of Analogue Addressable BEAM TYPE FIRE detectors suitable for minimum 30m span with detector mounting base & required accessories.	Each	63318.00
29.9	Supply of spare / additional break glasses for break glass type MCP.	Each	41.00



29.10	Supply, installation, testing & commissioning of Strobe cum Sounder in ABS plastic body having sound adjustable Db level upto 90 dBs and a multi tone facility and light adjustable to 110 candelas complete with mounting base, enclosure & required accessories.	Each	2818.00
30	CCTV SYSTEM		
30.1	Providing installation testing and commissioning weather & dust proof IP based FIXED LENS true day/ night Camera (IP 66) with IR LED 20-25m range , 1.3 Mega pixel, 1/3 CCD/CMOS, ICR, 0.1 Lux/F1.2, 2.8 - 12mm / F1.4 Vari-focal Lens, Gigabit Ethernet, PoE, 24VAC/12VDC, UL certified on ceiling/ wall or other desired location with mounting accessories.	Each	22532.00
30.2	Providing installation testing and commissioning IP based BOX PoE Camera (IP 66) with variable focal lens (2.8-9 mm) on ceiling/ wall or other desired location with mounting accessories.	Each	33788.00
30.3	Providing installation testing and commissioning weather & dust proof (IP66) IP based DOME PTZ (Pan Tilt & Zoom) true day& night Camera zoom 18 X optical zoom (5-15mm lens),360 degree tilt, 1.3 mega pixel, 0.1 Lux, IR Range 80m, $\pm 0.1^\circ$ preset accuracy, 0-90 tilt range, with complete accessories, UL certified on ceiling / wall or other desired location with mounting accessories.	Each	118207.00
30.4	Providing installation testing and commissioning weather & dust proof (IP66) IP based DOME PTZ (Pan Tilt & Zoom) true day& night Camera zoom 23 X optical zoom (5-15mm lens),360 degree tilt, 1.3 mega pixel, 0.1 Lux, IR Range 80m, $\pm 0.1^\circ$ preset accuracy, 0-90 tilt range, with complete accessories, UL certified on ceiling / wall or other desired location with mounting accessories.	Each	169371.00
30.5	Providing installation testing and commissioning weather & dust proof (IP66) IP based DOME PTZ (Pan Tilt & Zoom) true day& night Camera zoom 30 X optical zoom (5-15mm lens),360 degree tilt, 1.3 mega pixel, 0.1 Lux, IR Range 80m, $\pm 0.1^\circ$ preset accuracy, 0-90 tilt range, with complete accessories, UL certified on ceiling / wall or other desired location with mounting accessories.	Each	220534.00
30.6	Providing installation testing and commissioning weather & dust proof (IP66) IP based DOME PTZ (Pan Tilt & Zoom) true day& night Camera zoom 36 X optical zoom (5-15mm lens),360 degree tilt, 1.3 mega pixel, 0.1 Lux, IR Range 80m, $\pm 0.1^\circ$ preset accuracy, 0-90 tilt range, with complete accessories, UL certified on ceiling / wall or other desired location with mounting accessories.	Each	251232.00
30.7	Providing installation testing and commissioning of following channel NVR (Network Video Recorder) with specified capacity HDD having space for fixing 4 nos HDD including all connections as required.		
30.7.1	8 channel, 1 TB HDD	Each	107975.00
30.7.2	16 channel, 2 TB HDD	Each	256348.00



30.7.3	24 channel, 4 TB HDD	Each	409838.00
30.8	Providing installation testing and commissioning following size LCD MONITOR at desired location including all accessories, connections etc as required.		
30.8.1	22"	Each	14164.00
30.8.2	32"	Each	27696.00
30.8.3	42"	Each	53244.00
31	DISMANTLING		
31.1	Dismantling / taking out old point wiring from surface, PVC/steel conduit including wires, conduit, switch, socket, sheet, junction box cover etc. as required including making bundles, shifting of dismantled material to department store.	Point	18.50
31.2	Dismantling / taking out old circuit/ sub main wiring from surface of following sizes including, wires, conduit including making bundles, shifting of dismantled material to department store.		
31.2.1	Up to 6 sq. mm	Metre	2.80
31.2.2	Above 6 sq. mm and up to 25 sq. mm	Metre	4.40
31.3	Repairing wall/ ceiling surface along dismantled surface conduit point wiring by refilling the hole with cement mortar & finished with matching distemper/ paint.	Point	1.40
31.4	Repairing wall/ ceiling surface along dismantled surface circuit/ sub main wiring by refilling the hole with cement mortar & finished with matching distemper/ paint.	Metre	0.50
31.5	Dismantling the existing ceiling / exhaust fan / cabin fan with accessories including shifting of dismantled material to department store.	Each	22.50
31.6	Dismantling the all sizes indoor lighting luminaries from wall/ ceiling with accessories including shifting of dismantled material to department store.	Each	13.50
31.7	Dismantling the all sizes outdoor lighting luminaries from wall/ roof with accessories including shifting of dismantled material to department store.	Each	31.00
31.8	Dismantling the all sizes outdoor lighting luminaries from steel poles with accessories including shifting of dismantled material to department store.	Each	35.50
31.9	Dismantling the existing armoured / unarmoured power cable from surface including recoiling of dismantled cable and shifting to department store.		
31.9.1	Upto 35 sqmm	Metre	1.80
31.9.2	Beyond 35 sqmm and upto 95 sqmm	Metre	2.20
31.9.3	Beyond 95 sqmm and upto 185 sqmm	Metre	2.70
31.9.4	Beyond 185 sqmm and upto 400sqmm	Metre	3.60
31.10	Dismantling of existing under ground power cable from ground and refilling the trench upto ground level including recoiling of dismantled cable and shifting to department store.		
31.10.1	Upto 35 sqmm	Metre	38.00
31.10.2	Beyond 35 sqmm and upto 95 sqmm	Metre	38.50
31.10.3	Beyond 95 sqmm and upto 185 sqmm	Metre	39.00
31.10.4	Beyond 185 sqmm and upto 400sqmm	Metre	40.00



31.11	Dismantling of existing under ground power cable from pipe including recoiling of dismantled cable and shifting to department store.		
31.11.1	Upto 35 sqmm	Metre	1.30
31.11.2	Beyond 35 sqmm and upto 95 sqmm	Metre	1.80
31.11.3	Beyond 95 sqmm and upto 185 sqmm	Metre	2.20
31.11.4	Beyond 185 sqmm and upto 400sqmm	Metre	2.70
31.12	Dismantling of DP/T.P/TPN switch or D.B. of following capacity from angle iron board/ cubical panel including shifting of dismantled material to department store.		
31.12.1	Upto 125 amps	Each	35.50
31.12.2	Above 125 amps	Each	44.50
31.13	Dismantling of angle iron board/ cubical panel including repairing the wall, shifting of dismantled material to department store. (front area to be measured)	sqm	153.00
31.14	Dismantling of steel pole, R. S. joist, girder pole from the cement concrete foundation with bracket, insulators, stay wires etc, refilling the pit upto ground level including shifting of dismantled material to department store.	Each	717.00
31.15	Dismantling of stay set from the cement concrete foundation, refilling the pit upto ground level including shifting of dismantled material to department store.	Each	362.00
31.16	Dismantling the geyser or storage type water heater including shifting of dismantled material to department store.	Each	22.50
32	MINOR CIVIL WORKS		
32.1	Earth work in all type soil except soft rock / hard rock with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling of excavated soil in trench / pit to ground level complete as required.	cum	163.00
32.2	Earth work in soft rock with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling with excavated soil in trench / pit to ground level complete as required	cum	203.00
32.3	Earth work in hard rock (without blasting) with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling with excavated soil in trench / pit to ground level complete as required	cum	440.00
32.4	Earth work in hard rock (blasting prohibited) with wedging and chiseling with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling with excavated soil in trench / pit to ground level complete as required	cum	775.00
32.5	Filling of excavation stuff of any kind made available for filling except B.C. soil in layers including ramming and watering.	cum	63.00
32.6	Filling hard moorum in foundation or under floor in layers including ramming and watering.	cum	450.00
32.7	Providing timber / steel form work for cement concrete work at all levels including removing of the same.	sqm	98.50



32.8	Providing brick masonry work in cement mortat 1:4 (1 cement : 4 coarse sand) with well burnt clay modular bricks having compressive strength not less than 25kg/sqmm at all levels including scaffolding curing etc complete.	cum	3895.00
32.9	Plastering 15 mm thick on brick work/ CC surface with cement mortar 1:4 (1 cement : 4 fine sand) at all levels.	sqm	111.00
32.10	Cement mortar 1:4 (1 cement : 4 coarse sand).	cum	2654.00
32.11	Cement mortar 1:4 (1 cement : 4 fine sand).	cum	2654.00
32.12	Providing and laying Cast-in-situ cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm including mixing with mechanical mixer, compacting with vibrator, finishing and currying etc. complete but excluding form work.	cum	3518.00
32.13	Providing and laying Cast-in-situ cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm including mixing with mechanical mixer, compacting with vibrator, finishing and currying etc. complete but excluding form work.	cum	2885.00
32.14	Structural steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	kg	59.50
32.15	Applying priming coat on steel work with red oxide zinc chromate primer.	sqm	17.00
33	MAINTENANCE		
33.1	Rewinding of ceiling fan by copper enameled wire of suitable gauge including all other required material i.e. insulation varnish, connection leads, oiling greasing etc complete with testing including dismantling & refitting of fan at site. (old copper wire will become the property of contractor)		
33.1.1	48" (1200 mm sweep )	Each	368.00
33.1.2	56" (1400 mm sweep )	Each	382.00
33.2	Rewinding of Ex-Fan motor by copper enameled wire of suitable gauge including all other required material i.e. insulation varnish, connection leads, oiling greasing etc complete with testing including dismantling & refitting of fan at site. (old copper wire will become the property of contractor)		
33.2.1	12" (300mm) Ex. Fan	Each	410.00
33.2.2	15" (380mm) Ex. Fan	Each	432.00
33.2.3	18" (450mm) Ex. Fan	Each	468.00
33.3	Cleaning, overhauling, servicing of ceiling/ Exhaust / wall bracket fan including greasing/ oiling, replacement of safety pins, check nuts, lock nut, nut bolts etc. making perfect alignment including dismentaling and refitting at site as required.	Each	104.00
33.4	Replacement of defective ball bearing by approved make of suitable size bearing of all size of ceiling fan during overhauling as required.	Each	53.50
33.5	Replacement of defective ball bearing by approved make of suitable size bearing of all size of ceiling fan including dismentaling, disambling, assembling and reifitting as required.	Each	82.50



33.6	Replacement of defective ball bearing by approved make of suitable size bearing of all size of exhaust fan etc as required.	Each	61.50
33.7	Replacement of defective ball bearing by approved make of suitable size bearing of all size of exhaust fan including dismantling, disassembling, assembling and reftting as required.	Each	90.50
33.8	Supplying and replacing defective 2/3 KW heating element with approved make and suitable size in existing water heater/Gyser of any make, any capacity.	Each	195.00
33.9	Supplying and replacing defective thermostat with approved make and suitable size in existing water heater/Gyser of any make, any capacity.	Each	201.00
33.10	Painting of ceiling fan in installed position with one or more coat of spray painting with synthetic enamel paint of approved brand and make to give an even shade including cleaning the surface with detergent as required.	Each	43.00
33.11	Painting of following height steel tubular poles with two coat of enamel paint of approved brand and colour including cleaning the surface as required:		
33.11.1	upto 6 metre	Each	99.50
33.11.2	Above 6 metre and upto 8 metre	Each	165.00
33.11.3	Above 8 metre and upto 10 metre	Each	248.00
33.11.4	Above 10 metre and upto 12 metre	Each	331.00
33.11.5	Above 12 metre and upto 14 metre	Each	381.00
33.12	Painting of following height steel tubular poles with two coat of aluminium paint of approved brand including cleaning the surface as required:		
33.12.1	upto 6 metre	Each	121.00
33.12.2	Above 6 metre and upto 8 metre	Each	201.00
33.12.3	Above 8 metre and upto 10 metre	Each	302.00
33.12.4	Above 10 metre and upto 12 metre	Each	402.00
33.12.5	Above 12 metre and upto 14 metre	Each	462.00
33.13	Painting of following height steel tubular poles with two coat of copper paint of approved brand including cleaning the surface as required:		
33.13.1	upto 6 metre	Each	114.00
33.13.2	Above 6 metre and upto 8 metre	Each	190.00
33.13.3	Above 8 metre and upto 10 metre	Each	285.00
33.13.4	Above 10 metre and upto 12 metre	Each	380.00
33.13.5	Above 12 metre and upto 14 metre	Each	437.00
33.14	Painting new steel and other metallic surface with red oxide zinc chromide primer paint complete with supply of material labour etc. including preparation of surface.	sqm	124.00
33.15	Painting wood steel and other metallic surface with Aluminium Paint complete with material and labour including preparation of surface.	sqm	151.00
34	SUPPLY		
34.1	Supplying following sizes ISI marked FR PVC insulated copper conductor, single core cable in company pack coils.		
34.1.1	1.5 sq. mm	Metre	9.90
34.1.2	2.5 sq. mm	Metre	16.00



34.1.3	4.0 sq. mm	Metre	23.50
34.1.4	6.0 sq. mm	Metre	35.50
34.1.5	10.0 sq. mm	Metre	64.00
34.2	Providing following size ISI marked FR PVC insulated, PVC sheathed, flexible copper conductor cable.		
34.2.1	0.5 sq. mm two core	Metre	12.00
34.2.2	1.0 sq. mm two core	Metre	19.00
34.2.3	1.0 sq. mm three core	Metre	26.50
34.2.4	1.5 sq. mm three core	Metre	35.00
34.2.5	2.5 sq. mm three core	Metre	56.50
34.2.6	4.0 sq. mm three core	Metre	86.00
34.3	Providing following size ISI marked FR PVC insulated, PVC sheathed, 3 core submersible copper conductor cable.		
34.3.1	1.5 sq. mm	Metre	36.00
34.3.2	2.5 sq. mm	Metre	58.00
34.3.3	4.0 sq. mm	Metre	85.00
34.4	Supplying ISI marked following pair 0.5 mm FR PVC insulated PVC seathed copper conductor, telephone cable in company pack coils.		
34.4.1	1 Pair	Metre	4.20
34.4.2	2 Pair	Metre	7.30
34.4.3	4 Pair	Metre	14.00
34.5	Supplying following grade co-axial TV cable PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath cable in company pack coils.		
34.5.1	RG-6 grade	Metre	16.00
34.5.2	RG-11 grade	Metre	36.00
34.6	Supplying following UTP 4 pair Cat 6 LAN cable cable in company pack coils.	Metre	19.00
34.7	Supplying following sizes PVC insulated, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade		
34.7.1	2 x 4 sq. mm	Metre	43.00
34.7.2	2 x 6 sq. mm	Metre	50.50
34.7.3	2 x 10 sq. mm	Metre	63.50
34.7.4	2 x 16 sq. mm	Metre	76.00
34.7.5	2 x 25 sq. mm	Metre	77.00
34.7.6	2 x 35 sq. mm	Metre	94.50
34.7.7	3 x 10 sq. mm	Metre	74.00
34.7.8	3 x 16 sq. mm	Metre	78.50
34.7.9	3 x 25 sq. mm	Metre	102.00
34.7.10	3 x 35 sq. mm	Metre	129.00
34.7.11	3.5 x 25 sq. mm.	Metre	84.50
34.7.12	3.5 x 35 sq. mm.	Metre	96.00
34.7.13	3.5 x 50 sq. mm.	Metre	127.00
34.7.14	3.5 x 70 sq. mm.	Metre	118.00
34.7.15	3.5 x 95 sq. mm.	Metre	146.00
34.7.16	3.5 x 120 sq. mm.	Metre	188.00
34.7.17	3.5 x 150 sq. mm.	Metre	254.00
34.7.18	3.5 x 185 sq. mm.	Metre	316.00
34.7.19	3.5 x 240 sq. mm.	Metre	395.00
34.7.20	3.5 x 300 sq. mm.	Metre	469.00
34.7.21	3.5 x 400 sq. mm.	Metre	583.00
34.7.22	4 x 10 sq. mm.	Metre	735.00



34.7.23	4 x 16 sq. mm.	Metre	901.00
34.7.24	4 x 25 sq. mm.	Metre	1146.00
34.8	Supplying following sizes PVC insulated, PVC sheathed, steel armoured, copper conductor control cable of 1.1 KV grade		
34.8.1	2 x 1.5 sq. mm	Metre	42.50
34.8.2	4 x 1.5 sq. mm	Metre	74.50
34.8.3	6 x 1.5 sq. mm	Metre	100.00
34.9	Supplying of following sizes PVC conduit		
34.9.1	20 mm	Metre	13.00
34.9.2	25 mm	Metre	17.50
34.10	Supplying of following sizes PVC conduit accessories		
34.10.1	20 mm bend	Each	4.90
34.10.2	25 mm bend	Each	6.60
34.10.3	20 mm couplers	Each	3.00
34.10.4	25 mm couplers	Each	4.50
34.11	Supplying of following sizes PVC casing capping		
34.11.1	20x12 mm	Metre	17.00
34.11.2	25x16 mm	Metre	21.00
34.11.3	32x16 mm	Metre	24.50
34.12	Supplying following Modular base & cover plate in sealed company packing.		
34.12.1	1 Module	Each	31.50
34.12.2	2 Module	Each	31.50
34.12.3	3 Module	Each	41.00
34.12.4	4 Module	Each	46.00
34.12.5	6 Module	Each	58.00
34.12.6	8 Module	Each	76.50
34.12.7	12 Module	Each	116.00
34.12.8	16 Module	Each	165.00
34.13	Supplying following modular switch, socket, other accessories in sealed company packing.		
34.13.1	5/6 amps one way switch	Each	45.50
34.13.2	5/6 amps two way switch	Each	57.00
34.13.3	Bell push	Each	58.00
34.13.4	15/16 amp switch	Each	71.00
34.13.5	3 pin 5/6 amp socket outlet	Each	63.00
34.13.6	6 pin 15/16 amp socket outlet	Each	98.00
34.13.7	6 pin 20 amp socket outlet	Each	104.00
34.13.8	Fan regulator (two module size) electronic stepped type moving all rounds	Each	169.00
34.13.9	Telephone socket outlet	Each	49.00
34.13.10	T.V. antenna socket outlet	Each	51.50
34.13.11	Computer Outlet Jack	Each	188.00
34.13.12	25/32 amp A.C. Starter switch	Each	192.00
34.13.13	SP MCB 25 amp	Each	71.50
34.13.14	Blanking plate	Each	14.00
34.14	Supplying following accessories in deluxe quality in company packing.		
34.14.1	Plug Top (Deluxe type) 3 pin 5/6 Amps (For light plug).	Each	49.00
34.14.2	Plug Top (Deluxe type) 3 pin 16 Amps (For power plug).	Each	69.50
34.14.3	Plug Top (Deluxe type) 3 pin 25 Amps (For power plug).	Each	85.50
34.14.4	Ceiling rose 3 pin 5 amp	Each	12.50



34.14.5	Pendent holder	Each	15.50
34.14.6	Batten/ angle holder	Each	16.50
34.14.7	Call bell (Dindong), AC/DC, single phase	Each	143.00
34.14.8	Call bell/ buzzer, AC/DC, single phase	Each	41.00
34.14.9	Call bell with cordless bell push (bell operated on 230V AC and bell push with battery cell)	Each	204.00
34.15	Supplying following ISI marked piano type switch, socket and other accessories		
34.15.1	5/6 amps one way switch	Each	12.50
34.15.2	5/6 amps two way switch	Each	17.00
34.15.3	Bell push	Each	17.00
34.15.4	15/16 amps switch	Each	51.00
34.15.5	3 pin 5/6 amp socket outlet	Each	20.50
34.15.6	6 pin 15/16 amp socket outlet	Each	51.00
34.15.7	Plug Top 3 pin 5/6 Amps (For light plug).	Each	28.50
34.15.8	Plug Top 3 pin 16 Amps (For power plug).	Each	41.00
34.15.9	Telephone socket outlet	Each	36.50
34.15.10	TV antenna socket outlet	Each	22.00
34.15.11	Fan regulator Electronic, step type moving all round	Each	154.00
34.15.12	Ceiling rose 3 pin 5 amps	Each	12.50
34.15.13	Pendent holder	Each	12.50
34.15.14	Batten/ angle holder	Each	13.50
34.15.15	Phenolic laminated sheet	sqcm	0.10
34.16	Supplying metal box of following sizes (nominal size) including painting.		
34.16.1	75 mm X 75 mm X 60 mm deep	Each	19.50
34.16.2	100 mm X 100 mm X 60 mm deep	Each	28.50
34.16.3	150 mm X 75 mm X 60 mm deep	Each	32.00
34.16.4	150 mm X 150 mm X 60 mm deep	Each	48.50
34.16.5	180 mm X 100 mm X 60 mm deep	Each	43.00
34.16.6	200 mm X 125 mm X 60 mm deep	Each	53.50
34.16.7	200 mm X 150 mm X 60 mm deep	Each	60.00
34.16.8	200 mm X 250 mm X 60 mm deep	Each	83.50
34.16.9	200 mm X 300 mm X 60 mm deep	Each	86.50
34.16.10	250 mm X 300 mm X 60 mm deep	Each	117.00
34.16.11	325 mm X 300 mm X 60 mm deep	Each	144.00
34.16.12	375 mm X 300 mm X 60 mm deep	Each	161.00
34.17	Supplying of following sizes wooden switch box made of wooden plank side wall and base		
34.17.1	100mmX100mm	Each	8.00
34.17.2	150mmX75mm	Each	9.20
34.17.3	150mmX150mm	Each	13.50
34.17.4	180mmX100mm	Each	12.00
34.17.5	200mmX150mm	Each	16.50
34.17.6	250mmX200mm	Each	24.00
34.17.7	300mmX350mm	Each	36.50
34.17.8	300mmX400mm	Each	43.00
34.18	Supplying of following sizes PVC switch box suitable for modular switches		
34.18.1	94 mm X 94 mm (1/2 Module)	Each	42.50
34.18.2	118 mm X 94 mm (3 Module)	Each	44.50
34.18.3	150 mm X 94 mm (4 Module)	Each	48.00
34.18.4	205 mm X 94 mm (6 Module)	Each	63.00
34.19	Supplying following size/ modules, GI box for modular switches		
34.19.1	75mmX75mm (1/2 Module)	Each	28.50



34.19.2	100mmX75mm (3 Module)	Each	36.00
34.19.3	125mmX75mm (4 Module)	Each	44.00
34.19.4	200mmX75mm (6 Module)	Each	60.50
34.19.5	125mmX125mm (8 Module)	Each	73.50
34.19.6	200mmX150mm (12 Module)	Each	96.50
34.19.7	16 Module	Each	134.00
34.20	Supplying of following sizes ceiling fan		
34.20.1	1050 mm sweep	Each	1306.00
34.20.2	1200 mm sweep	Each	1306.00
34.20.3	1400 mm sweep	Each	1428.00
34.21	Supplying of following sizes 1400 rpm heavy duty (continuous running) exhaust fan		
34.21.1	300 mm sweep	Each	2171.00
34.21.2	380 mm sweep	Each	2644.00
34.21.3	450 mm sweep	Each	3668.00
34.22	Supply of 250/ 300 mm sweep Exhaust fan (Medium Duty)	Each	1122.00
34.23	Supplying of following sizes fancy exhaust fan having built in lovers		
34.23.1	225 mm sweep	Each	979.00
34.23.2	300 mm sweep	Each	1061.00
34.24	Supplying of resistance type FAN Regulator	Each	85.50
34.25	Supplying of wall/ cabin fan of 400mm sweep	Each	2052.00
34.26	Supplying of following type fluorescent fitting (luminaries) complete with electronic ballast/ copper ballast glow type starter but without fluorescent lamp		
34.26.1	4' x 40 W single patti type	Each	209.00
34.26.2	4' x 40 W single box type	Each	610.00
34.26.3	4' x 40 W single box type with decorative end caps.	Each	680.00
34.26.4	4' x 28 W T-5 single box type with decorative end caps	Each	529.00
34.27	Supplying of following 230/250 volts fluorescent lamp (tube)		
34.27.1	4' x 36/40 watt	Each	42.50
34.27.2	2' x 20 watt x 2'	Each	39.00
34.27.3	4' x 28 watt (T-5)	Each	126.00
34.28	Supplying of following CFL (Built in choke type)		
34.28.1	5 Watt	Each	138.00
34.28.2	9 Watt	Each	153.00
34.28.3	11 Watt	Each	168.00
34.28.4	15 Watt	Each	158.00
34.28.5	20 Watt	Each	204.00
34.28.6	23 Watt	Each	235.00
34.28.7	26 Watt	Each	255.00
34.28.8	35 Watt	Each	332.00
34.28.9	45 Watt	Each	551.00
34.28.10	65 Watt	Each	714.00
34.28.11	85 Watt	Each	816.00
34.28.12	85 Watt spiral	Each	867.00
34.29	Supplying of following CFL (separate ballast type) without ballast		
34.29.1	9 W CFL (without choke)	Each	76.50
34.29.2	11 W CFL (without choke)	Each	81.50
34.29.3	13 W CFL (without choke)	Each	107.00
34.29.4	18 W CFL (without choke)	Each	138.00
34.29.5	36W CFL (without choke)	Each	148.00



34.30	Supplying of following LED lamps with inbuilt electronic driver heat sink for conventional holder and furnishing 2 Yrs Guarantee certificate from manufacturer.		
34.30.1	0.5 Watt	Each	93.00
34.30.2	5 Watt	Each	581.00
34.30.3	7 Watt	Each	698.00
34.30.4	9 Watt	Each	872.00
34.30.5	12 Watt	Each	1279.00
34.30.6	15 Watt	Each	1628.00
34.31	Supplying of following 230/250 volts metal halide lamp		
34.31.1	70 watt (T)	Each	766.00
34.31.2	150 watt (T)	Each	814.00
34.31.3	250 watt (T)	Each	988.00
34.31.4	400 watt (BT)	Each	988.00
34.31.5	70 Watt (E)	Each	882.00
34.31.6	150 Watt (E)	Each	930.00
34.31.7	250 Watt (E)	Each	901.00
34.31.8	400 watt (E)	Each	901.00
34.31.9	70 Watt double ended	Each	562.00
34.31.10	150 watt double ended	Each	659.00
34.32	Supplying of following 230/250 volts HPSV lamp tubular/elliptical		
34.32.1	70 watt (E)	Each	349.00
34.32.2	150 watt (E)	Each	485.00
34.32.3	250 watt (E)	Each	533.00
34.32.4	400 watt (E)	Each	630.00
34.32.5	70 Watt (T)	Each	388.00
34.32.6	150 Watt (T)	Each	504.00
34.32.7	250 Watt (T)	Each	562.00
34.32.8	400 Watt (T)	Each	659.00
34.32.9	70 Watt (T) plus	Each	490.00
34.32.10	150 Watt (T) plus	Each	694.00
34.32.11	250 Watt (T) plus	Each	842.00
34.32.12	400 Watt (T) plus	Each	893.00
34.33	Supplying of approved make following 230/250 volts electronic ballast		
34.33.1	For 36/40 watt T8 flu. Fitting	Each	160.00
34.33.2	For 28 watt T5 flu. Fitting	Each	345.00
34.33.3	For 26 watt CFL Fitting	Each	460.00
34.33.4	For 36 watt CFL Fitting	Each	460.00
34.33.5	For 70 watt HPSV/ Metal halide fitting	Each	638.00
34.33.6	For 150 watt HPSV/ Metal halide fitting	Each	1016.00
34.33.7	For 250 watt HPSV/ Metal halide fitting	Each	1252.00
34.33.8	For 400 watt HPSV/ Metal halide fitting	Each	1813.00
34.34	Supplying of approved make following 230/250 volts polyster filled copper wound ballast		
34.34.1	For 36/40 watt T8 flu. Fitting	Each	160.00
34.34.2	For 70 watt HPSV/ Metal halide fitting	Each	767.00
34.34.3	For 150 watt HPSV/ Metal halide fitting	Each	1151.00
34.34.4	For 250 watt HPSV/ Metal halide fitting	Each	1759.00
34.34.5	For 400 watt HPSV/ Metal halide fitting	Each	2552.00
34.35	Supplying of glow type stater suitable for 36/40 watt	Each	15.00
34.36	Supplying of following 230/250 volts Ignitors for 70-400 watt	Each	153.00



34.37	Supplying of following 230/250 volts capacitors for ceiling fans/ exhaust fan		
34.37.1	2.0 MFD	Each	25.50
34.37.2	2.5 MFD	Each	30.00
34.37.3	3.15 MFD	Each	33.50
34.37.4	4 MFD	Each	38.50
34.38	Supplying of following 230/250 volts capacitors for single phase motor		
34.38.1	6 MFD	Each	42.00
34.38.2	8 MFD	Each	47.50
34.38.3	10 MFD	Each	54.50
34.38.4	12 MFD	Each	61.50
34.38.5	15 MFD	Each	64.00
34.38.6	20 MFD	Each	92.00
34.38.7	25 MFD	Each	115.00
34.38.8	30 MFD	Each	128.00
34.39	Supplying of following 400 volts capacitors for Air conditioners		
34.39.1	36 MFD	Each	337.00
34.39.2	45 MFD	Each	365.00
34.39.3	50 MFD	Each	293.00
34.39.4	60 MFD	Each	428.00
34.40	Providing following rating and breaking capacity MCCB		
34.40.1	3 pole MCCB, 25-63A, Fixed Thermal Release, 10KA	Each	1357.00
34.40.2	3 pole MCCB, 80-100A, Fixed Thermal Release, 10KA	Each	1464.00
34.40.3	3 pole MCCB, 25-100A, Adjustable Thermal Release, 18KA	Each	2228.00
34.40.4	3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA	Each	3476.00
34.40.5	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA	Each	5508.00
34.40.6	3 pole MCCB, 160A, Adjustable Thermal - Magnetic Release, 25KA	Each	7222.00
34.40.7	3 pole MCCB, 200A, Adjustable Thermal - Magnetic Release, 25KA	Each	9180.00
34.40.8	3 pole MCCB, 250A, Adjustable Thermal - Magnetic Release, 25KA	Each	10894.00
34.40.9	3 pole MCCB, 200A, Adjustable Thermal - Magnetic Release, 35KA	Each	11249.00
34.40.10	3 pole MCCB, 250A, Adjustable Thermal - Magnetic Release, 35KA	Each	12240.00
34.40.11	3 pole MCCB, 320A, Adjustable Thermal - Magnetic Release, 35KA	Each	13158.00
34.40.12	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 35KA	Each	13433.00
34.40.13	3 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 35KA	Each	16316.00
34.40.14	3 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 35KA	Each	18109.00
34.40.15	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 50KA	Each	15380.00
34.40.16	3 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 50KA	Each	17564.00



34.40.17	3 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 50KA	Each	19015.00
34.40.18	3 pole MCCB, 250A, Adjustable Microprocessor Release, 35KA	Each	14149.00
34.40.19	3 pole MCCB, 400A, Adjustable Microprocessor Release, 35KA	Each	17020.00
34.40.20	3 pole MCCB, 630A, Adjustable Microprocessor Release, 35KA	Each	18501.00
34.40.21	3 pole MCCB, 400A, Adjustable Microprocessor Release, 50KA	Each	18703.00
34.40.22	3 pole MCCB, 630A, Adjustable Microprocessor Release, 50KA	Each	20331.00
34.40.23	3 pole MCCB, 800A, Adjustable Microprocessor Release, 50KA	Each	32148.00
34.40.24	4 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 50KA	Each	19205.00
34.40.25	4 pole MCCB, 500A, Adjustable Thermal - Magnetic Release, 50KA	Each	22724.00
34.40.26	4 pole MCCB, 630A, Adjustable Thermal - Magnetic Release, 50KA	Each	24345.00
34.40.27	4 pole MCCB, 400A, Adjustable Microprocessor Release, 50KA	Each	23892.00
34.40.28	4 pole MCCB, 630A, Adjustable Microprocessor Release, 50KA	Each	26536.00
34.40.29	4 pole MCCB, 800A, Adjustable Microprocessor Release, 50KA	Each	39957.00
34.41	Supplying following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate (But without MCB)		
34.41.1	4 way, Single door	Each	416.00
34.41.2	8 way, Single door	Each	538.00
34.41.3	12 way, Single door	Each	638.00
34.41.4	16 way, Single door	Each	793.00
34.41.5	4 way, Double door	Each	609.00
34.41.6	8 way, Double door	Each	765.00
34.41.7	12 way, Double door	Each	918.00
34.41.8	16 way, Double door	Each	1153.00
34.42	Supplying horizontal type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate (But without MCB)		
34.42.1	4 way Single door	Each	1114.00
34.42.2	6 way Single door	Each	1369.00
34.42.3	8 way Single door	Each	1739.00
34.42.4	4 way Double door	Each	1474.00
34.42.5	6 way Double door	Each	1790.00
34.42.6	8 way Double door	Each	2275.00
34.43	Supplying following SP MCB, 240 volts		
34.43.1	6 amps to 32 amps 'B' curve	Each	128.00
34.43.2	40 amps 'B' curve	Each	272.00
34.43.3	0.5 amps to 5 amps 'C' curve	Each	191.00
34.43.4	6 amps to 32 amps 'C' curve	Each	128.00
34.43.5	40 amps 'C' curve	Each	272.00



34.44	Supplying following DP MCB, 240 volts		
34.44.1	0.5 amps to 5 amps 'C' curve	Each	525.00
34.44.2	6 amps to 32 amps 'C' curve	Each	373.00
34.44.3	40 amps 'C' curve	Each	606.00
34.44.4	50 amps 'C' curve	Each	606.00
34.44.5	63 amps 'C' curve	Each	606.00
34.44.6	0.5 amps to 5 amps 'D' curve	Each	525.00
34.44.7	6 amps to 32 amps 'D' curve	Each	398.00
34.44.8	40 amps 'D' curve	Each	640.00
34.44.9	50 amps 'D' curve	Each	640.00
34.44.10	63 amps 'D' curve	Each	640.00
34.45	Supplying following TP MCB, 440 volts		
34.45.1	0.5 amps to 5 amps 'C' curve	Each	802.00
34.45.2	6 amps to 32 amps 'C' curve	Each	609.00
34.45.3	40 amps 'C' curve	Each	928.00
34.45.4	50 amps 'C' curve	Each	928.00
34.45.5	63 amps 'C' curve	Each	928.00
34.45.6	0.5 amps to 5 amps 'D' curve	Each	808.00
34.45.7	6 amps to 32 amps 'D' curve	Each	634.00
34.45.8	40 amps 'D' curve	Each	993.00
34.45.9	50 amps 'D' curve	Each	993.00
34.45.10	63 amps 'D' curve	Each	993.00
34.46	Supplying following TP&N MCB, 440 volts		
34.46.1	0.5 amps to 5 amps 'C' curve	Each	1027.00
34.46.2	6 amps to 32 amps 'C' curve	Each	816.00
34.46.3	40 amps 'C' curve	Each	1189.00
34.46.4	50 amps 'C' curve	Each	1189.00
34.46.5	63 amps 'C' curve	Each	1189.00
34.46.6	0.5 amps to 5 amps 'D' curve	Each	1029.00
34.46.7	6 amps to 32 amps 'D' curve	Each	844.00
34.46.8	40 amps 'D' curve	Each	1248.00
34.46.9	50 amps 'D' curve	Each	1248.00
34.46.10	63 amps 'D' curve	Each	1248.00
34.47	Supplying following rating, 240 volts TWO POLE ISOLATOR		
34.47.1	40 amps	Each	196.00
34.47.2	40 amps	Each	230.00
34.47.3	63 amps	Each	303.00
34.48	Supplying following rating, 415 volts, FOUR POLES, ISOLATOR		
34.48.1	40 amps	Each	511.00
34.48.2	63 amps	Each	558.00
34.48.3	100 amps	Each	589.00
34.49	Supplying following rating, DP, 240 volts, RCCB sensitivity up to 300 milliamperes		
34.49.1	25 amps	Each	1419.00
34.49.2	40 amps	Each	1669.00
34.49.3	63 amps	Each	1938.00
34.50	Supplying following rating, FP, 415 volts, RCCB sensitivity up to 300 milliamperes		
34.50.1	25 amps	Each	1893.00
34.50.2	40 amps	Each	1916.00
34.50.3	63 amps	Each	2202.00



34.51	Supplying metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip aluminium alloy or wrought aluminium busbars of following capacity and length, complete with all accessories		
34.51.1	100 amps x 300mm long	Each	880.00
34.51.2	100 amps x 450mm long	Each	1200.00
34.51.3	100 amps x 600mm long	Each	1520.00
34.51.4	200 amps x 300mm long	Each	1059.00
34.51.5	200 amps x 450mm long	Each	1449.00
34.51.6	200 amps x 600mm long	Each	1838.00
34.51.7	200 amps x 900mm long	Each	2619.00
34.52	Supplying metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip copper busbars of following capacity and length, complete with all accessories		
34.52.1	100 amps x 300mm long	Each	1257.00
34.52.2	100 amps x 450mm long	Each	1765.00
34.52.3	100 amps x 600mm long	Each	2273.00
34.52.4	200 amps x 300mm long	Each	1933.00
34.52.5	200 amps x 450mm long	Each	2759.00
34.52.6	200 amps x 600mm long	Each	3586.00
34.52.7	200 amps x 900mm long	Each	5240.00
34.53	Supplying following size aluminium strip of bus bar		
34.53.1	20x5mm (100 amps)	Metre	296.00
34.53.2	30x5mm (200 amps)	Metre	296.00
34.54	Providing of metal clad, TP&N switch fuse unit (re-wirable), 415/500 volts, with porcelain re-wireable fuses as required.		
34.54.1	32 amps	Each	749.00
34.54.2	63 amps	Each	1564.00
34.54.3	100 amps	Each	2914.00
34.54.4	200 amps	Each	4498.00
34.55	Supplying metal clad, 4 pole, on load change over switch unit (with sheet steel enclosure), 415/500 volts		
34.55.1	100 amps	Each	6003.00
34.55.2	200 amps	Each	11290.00
34.56	Supplying 2 pole, 230/250 volts following rating power contactor		
34.56.1	16 amps	Each	368.00
34.56.2	25 amps	Each	471.00
34.56.3	40 amps	Each	597.00
34.57	Supplying Auxiliary contact block 1 NO + 1 NC	Each	133.00
34.58	Supplying single phase preventer	Each	414.00
34.59	Supplying Astronomical Timer switch (timer) with year programmed	Each	3213.00
34.60	Supplying penal mounting 230 volt LED type indicating lamp	Each	72.50
34.61	Supplying PVC water tight terminal box with detachable gland plate in bottom, hinged front openable cover, 1 Nos 4way connector and 1 No SPMCB inside the box with 2 Nos clamp		
34.61.1	250x200x125 mm for single phase	Each	490.00
34.61.2	300x200x125 mm for 3 phase	Each	612.00
34.62	Supplying of brass compression gland		
34.62.1	16 mm	Each	26.00
34.62.2	19 mm	Each	30.50



34.62.3	22 mm	Each	38.50
34.62.4	25 mm	Each	46.00
34.62.5	28 mm	Each	69.00
34.62.6	32 mm	Each	80.50
34.62.7	35 mm	Each	103.00
34.62.8	38 mm	Each	127.00
34.62.9	45 mm	Each	155.00
34.62.10	50 mm	Each	199.00
34.62.11	57 mm	Each	261.00
34.62.12	63 mm	Each	309.00
34.62.13	70 mm	Each	369.00
34.63	Supplying of aluminium lugs		
34.63.1	Aluminium lugs for 4 sq. mm cable	Each	1.20
34.63.2	Aluminium lugs for 6 sq. mm cable	Each	1.40
34.63.3	Aluminium lugs for 10 sq. mm cable	Each	1.90
34.63.4	Aluminium lugs for 16 sq. mm cable	Each	2.30
34.63.5	Aluminium lugs for 25 sq. mm cable	Each	2.80
34.63.6	Aluminium lugs for 35 sq. mm cable	Each	3.80
34.63.7	Aluminium lugs for 50 sq. mm cable	Each	5.70
34.63.8	Aluminium lugs for 70 sq. mm cable	Each	8.50
34.63.9	Aluminium lugs for 95 sq. mm cable	Each	9.40
34.63.10	Aluminium lugs for 120 sq. mm cable	Each	13.00
34.63.11	Aluminium lugs for 150 sq. mm cable	Each	17.00
34.63.12	Aluminium lugs for 185 sq. mm cable	Each	21.50
34.63.13	Aluminium lugs for 225 sq. mm cable	Each	30.00
34.63.14	Aluminium lugs for 240 sq. mm cable	Each	36.50
34.63.15	Aluminium lugs for 300 sq. mm cable	Each	51.00
34.63.16	Aluminium lugs for 400 sq. mm cable	Each	74.00
34.64	Supplying of copper lugs		
34.64.1	Copper lugs for 4 sq. mm cable	Each	4.10
34.64.2	Copper lugs for 6 sq. mm cable	Each	4.50
34.64.3	Copper lugs for 10 sq. mm cable	Each	5.70
34.64.4	Copper lugs for 16 sq. mm cable	Each	7.50
34.64.5	Copper lugs for 25 sq. mm cable	Each	12.50
34.64.6	Copper lugs for 35 sq. mm cable	Each	13.50
34.64.7	Copper lugs for 50 sq. mm cable	Each	18.00
34.64.8	Copper lugs for 70 sq. mm cable	Each	29.50
34.64.9	Copper lugs for 95 sq. mm cable	Each	41.00
34.64.10	Copper lugs for 120 sq. mm cable	Each	55.00
34.64.11	Copper lugs for 150 sq. mm cable	Each	77.50
34.64.12	Copper lugs for 185 sq. mm cable	Each	114.00
34.64.13	Copper lugs for 240 sq. mm cable	Each	161.00
34.65	Supplying of GI wire	kg	87.00
34.66	Supplying of 15 amps aerial fuse complete with porcelain tube	Each	58.00
34.67	Supplying of 30 amps aerial fuse complete with porcelain tube	Each	79.00
34.68	Supplying of following disc/ pin insulator		
34.68.1	11 KV pin insulator with hardware fitting	Set	174.00
34.68.2	11 KV disc insulator with hardware fitting	Set	842.00
34.68.3	33 KV pin insulator with hardware fitting	Set	233.00
34.68.4	33 KV disc insulator with hardware fitting	Set	942.00
34.69	Supplying of following		
34.69.1	16/32 amp DP surface switch with neon	Each	104.00
34.69.2	16 amps porcelain re-wirable Kit-Kat.	Each	38.50
34.69.3	32 amps porcelain re-wirable Kit-Kat.	Each	64.50



34.69.4	63 amps porcelain re-wirable Kit-Kat.	Each	125.00
34.69.5	100 amps porcelain re-wirable Kit-Kat.	Each	228.00
34.69.6	200 amps porcelain re-wirable Kit-Kat.	Each	450.00
34.69.7	300 amps porcelain re-wirable Kit-Kat.	Each	754.00