

ELECTRICAL WORK, UPS, FIRE ALARM ETC.

NAME OF THE WORK: Electrical, AC, UPS & Fire Alarm Work.

SN	Qty	Description	Per	Rate	Amount
1.	1	SSB SETC of cubical type, wall mounting, switch board, main board 16 SWG CRCA sheet, main board, doors and gland plates 14 SWG. Bus bar 25 X 6 mm shall be electrolyte quality copper on SMC supports. Paints shall be with one a coat of primer and two coats of enamel paint, siemens Grey panel should have provision for earhting. INCOMER: 250 amp TPN SDF OUTGOING: 3 Nos. 63 amp, 3no 100 amp TP MCCB 16 ka, panel should be got inspected and approved before delivery at site.	Set		
2.	1	Supply and fixing 250amp four pole On load Change Over Switch with suitable adapter box.	Set		
3.	1	SETC of 250 amp TPN fuse switches with proper enclosure and MS frame work and HRC fuses (one near Metering panel and other near Ge, Control panel).	Nos.		
4.	1	APFC CAPACITOR PANEL SETC of 6 stage 30 kvar APFC capacitor panel (7+7+3+3+3+7) kvar to be modified, if needed while tuning) consisting. Incomer ; 1 no 63 amp 4 pole MCB with current setting, 1 set RYB Indicating Lamp (22.5 mm) LED with fuses. 1 no Auto manual switch.	Set		
5a.	2	SETC of wall mounting type MCCB DB concealed or with minimum projection from wall. TPN 8 way Vertical DB Double door with 63 amp four pole MCCB incomer and 16 Nos. 10 A to 20 amps SP MCB and for outgoing.	Set		
b.	1	SETC of wall mounting type MCCB DB concealed or with minimum projection from wall. TPN 4 way Vertical DB Double door with 100amp four pole MCCB incomer and 12 Nos. 10 to 25 amp SP&TP MCB for outgoing.foraircondition	Set		
6.	2	Supply and fixing of 12 way SPN MCB DB double door with 20 amp DP MCB as incomer and 6 Nos. 6 to 10 amp SP MCB outgoing UPS circuit. UPS & RAW power.	Set		
7.a	3	Supply and fixing MCB DB double door with 40 amp DP MCB as incomer and 2 Nos. 20 amp SP MCB outgoing UPS circuit.	Set		
7.b	25	Supply & laying of 4 run of 4 sqmmpvc stranded FRLS copper conductor wire through suitable dia flexible metal hoses from UPS in/out enclose to UPS incomer.	Mtr		
7.c	125	As above ,3runs of 4 sqmm.wire from UPS output to UPS power DB.	Mtr		
8.	8	Supply and fixing 25amp DP switch modular type in suitable MS box for single phase AC control.	Nos.		
9.	--	Supply and fixing of 4 way DD DB with 20 amp DP MCB for Name Board Light.	Nos.		

10.		UG CABLE AL. conductor. Supply and laying and dressing of 1.1 kv grade PVC insulated armored cable with aluminum conductor. The cable should be clamped on wall using GI Clamps.			
a	120	3 ½ core 95sq.mm AYFY cable + 2 run no 8 SWG GI wire.	Mts.		
b	8	3 ½ core 25sq.mm AYFY cable + 2 run no 8 SWG GI wire for connecting APFC.	Mts.		
c.	75	UG COPPER Conductor. 4 core 6sq.mm + 2 runs of 12 SWG GI wire for LDB	Mts.		
d.	75	4 core 16sq.mm + 2 run of no 12 SWG GI wires for AC and UPS DB.	Mts.		
e.	125	3 core 6sq.mm copper armored cables for AC units/UPS rate includes proper earthing	Mts.		
F		4 core 4 sq.mm copper armored cables for cassette AC units rate includes proper earthing	Mts		
g.	30	Supply and laying of 3 core 2.5sq.mm copper armored cable for name board lighting circuit.	Mts.		
h.	15	Supply and laying of 4 core 1.5sq.mm copper armored cable for 3 phase indication lamp set.	Mts.		
i.	1	Supply and fixing 3 phase indication lamp set	set		
11.		End termination of cables.			
a.	6	3 ½ core 95sq.mm cable	Nos.		
b.	2	3 ½ core 25sq.mm cable	Nos.		
c.	4	4 core 6sq.mm cable	Nos.		
d.	6	4 core 16sq.mm cable	Nos.		
e.	---	4 core 4 sqmm cable	Nos		
f.	24	3 core 6sq.mm cable	Nos.		
g.	-	3 core 2.5sq.mm cable	Nos.		
12.	35	Supply and installation for computer power made out of properly painted 16 SWG MS sheet equipped with 4 nos. 6 amp switched sockets Modular type. The MS box shall have suitable arrangements for re-fixing / grouting in work stations/ table/ wall / partition, as required at site with provision for earthing.	Set		
13.	35	Supply and fixing of 2 nos. 6 amp switched socket, modular type in MS box as detailed in item 10 for Raw Power.	Set		
14.	35	Supply and fixing of 16 amp switch modular type for master controlling suitable MS box.	Set		
15.	25	Supply and laying 3 runs of 6sq.mm PVC insulated stranded copper wire, (includes 1 run green color wire for earhting) in suitable dia ISI mark MS conduit pipe with all accessories and clamps.	Mts.		
16.	875	Supply and laying 3 runs of 2.5sq.mm PVC insulated stranded copper wire, (includes 1 run green color wire for earhting) 1.1 kv grade in suitable dia ISI mark MS conduit pipe with all accessories and clamps for computer stations and raw power sockets.	Mts.		
a					
b.	40	As above with 6 runs 2.5sq.mm for looping.	Mts.		
17.	4	Supply installation and testing of earth electrode as per IS 3043 – 1987 using 100 mm dia 2.5 mtr long cast iron pipe electrode. The rate shall include excavation, back filling with salt and charcoal mix, brick work. CI / pe cast concrete heavy duty cover slab (for general earthing.)	Set		
a.					

b.	2	Do with 600 X 600 X 3 mm copper plate for UPS Earthing inter connection of two copper plate earth electrode to be done using about 3.5 mtr long 25 x 3 mm copper flat.	set		
18. a.	45	Supply and installation of 25 x 3 mm GI flat to inter connect pipe electrode and earth bus to be provided near SSB and EB metering panel for General and generator earthing.	Mts.		
b.	60	Supply and laying of SC PVC insulated sheathered, in armored flexible 1.1 kv grade 10sq.mm copper cable, green color in 25 mm dia, rigid PVC conduit with ISI mark to inter connect UPS neutral with copper plate earth electrodes.	Mts.		
19	3	Supply and fixing of 12” exhaust fan the rate includes necessary civil work.	No		
20	3	Supply and fixing of 48” ceiling fan.	No		
21	15	Supply and fixing of 1 X 28 watts box type fitting W T.5 light fixture.	No		
22	----	Supply and fixing of 1.5 meter long 3 core 2.5 sqmm PVC insulated copper wire with 3 pin 6 amp . Plug top at one end ; The other end to be fixed to the switch board of strongroom and locker room.	Set		
23	15	Supply and fixing of 6A Plug and socket.	No		
24	15	Supply and fixing of Wall Mound Fan.	Nos		
25	35	Supply, installation, testing and commissioning of 600 x 600mm. recess 2x36 W CFL light fittings complete set with P5 louver, PL-lamp and HF blast. The rate includes in MS down rods/ chain and 1.5sqmm 3core PVC sheathed flexible round wire for connection from nearest light point.	Nos		
26	15	Supply, installation, testing and commissioning of recess 2x18 W CFL light fittings complete set. The rate includes in MS down rods/ chain and 1.5sqmm 3core PVC sheathed flexible round wire for connection from nearest light point	Nos		
27	115 15 2	Wiring and associated items a) Supply,Laying and termination of one way light & fan points run through a pvc pipes on open & concealed the wall (points with in 5 mtrs),modular switch etc lay on the wall by wall chipping. b) wiring of plug points. c) wiring of 2 way light points	Nos Nos Nos		
28	10	Supply and Fix 16/6 A power socket with 16 A switch	Nos		
29	700	Supply,Laying and termination of circuit mains with 2 run 2.5 sqmm& 1 run 1.5 sqmm cables run through pvc pipes switch boxes to DB.	Mtrs		
30	150	Suppy,Laying and termination of power mains 2 run 4 sqmm& 1 run 1.5 sqmm cables run through pvc pipes.	Mtrs		
1. a.	1	FIRE ALARM SYSTEM: Supply and fixing of 4zone fire alarm and indication panel.	No		
b.	15	Supply and fixing smoke detector (optical) 2551 E of M/S System sensor or M/S Honey well or similar below false ceiling.	Nos.		
c.	15	Same as © above false ceiling	Nos.		
d.	2	Supply and fixing manual call point	No.		
e.	1	Supply and fixing of heat detector at UPS room	No.		
f.	1	Supply and fixing hooter	No.		

g.	7	Supply and fixing of Response indicator.	No		
h.	325	Supply, installation and termination 2core 1.5sqmm twisted copper armored cable, the cable should be neatly clamped on ceiling/ wall/ partition with GI clamps.	Mts.		
2.		PUBLIC ADDRESS SYSTEM			
a.	12	Supply and installation of 6W ceiling mounted speaker with built in transformer	Nos.		
b.	150	Supply and installation of 2' core 24/0.2mm copper wire, twin twisted, in 20mm DIA PVC conduit. The rate should include proper GI clamping, cutting of wall etc., if required.	Mts.		

3.		TELEPHONE			
a.	10	Supply and installation of RJ 11 telephone socket modular type.	Nos.		
b.	155	Supply and installation of 2 pair copper telephone cable 0.5 mm DIA in 25 mm DIA PVC conduit.	Mts.		
c.	45	Same as above 5pair copper telephone cable 0.5 mm	Mts.		
d.	1	Supply fixing 20 pair crown box with crown connector.	Nos.		
4.	650	Supply and laying CAT 6 Cable by 25 mm DIA PVC pipe for DATA line.	Mts.		
		TOTAL			