

Name of Work: Providing internal electrification to Ground and Second floor of IC&SR building inside the premises. (Phase III)

**SPECIFICATIONS**

SI.No	Description of work	Qty	Unit	Rate	Amount
<b>A</b>	<b>POINT WIRING</b>				
1	Point wiring in PVC conduit, with modular type switch/regulator wiring for light point/ fan point/ exhaust fan point/ call bell point/ 6 amps switched socket with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI / PVC box, ceiling rose, round block and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required and instructed by the engineer incharge.				
1.1	Light point	300	Point		
Rate in words.....					
2	Supplying and fixing of following modular switch/ socket on wall/ concealed in wall / partition with suitable modular plate and GI Box and earthing with suitable size of FRLS PVC copper insulated single core cable etc as required.				
2.1	6 amps socket controlled by 6 amps one way switch	60	Each		
Rate in words.....					
2.2	16 amps socket controlled by 16 amps one way switch	40	Each		
Rate in words.....					
2.3	3x 5 Amps UPS socket controlled by one 15 Amps Switch	50	Each		
Rate in words.....					
<b>B</b>	<b>POWER WIRINGS</b>				
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in a suitable surface/ recessed steel/ PVC conduit as required				

3.1	2 runs of 2.5 sq.mm and 1 run of 2.5 sqmm cable	4500	Metre		
Rate in words.....					
3.2	2 runs of 4.0 sq.mm and 1 run of 4 sq.mm cable	2000	Metre		
Rate in words.....					
3.3	2 Runs of 6.0 sq.mm and 1 run of 6sq.mm cable	500	Metre		
Rate in words.....					
3.4	4 runs of 6.0 sq.mm and 2 runs of 6 sq.mm cable	500	Metre		
Rate in words.....					
<b>C</b>	<b>PVC PIPES</b>				
4	Supply and laying of following size of PVC conduit to be concealed in slab / wall / surface mounted with necessary accessories like bends, couplers etc. The rate shall include fine plastering, metal junction boxes of suitable size at regular interval. The size of the pipe will be decided as per requirements.				
4.1	1" PVC pipe	300	Metre		
Rate in words.....					
4.2	1 1/4" PVC pipe	200	Metre		
Rate in words.....					
4.3	1 1/2" PVC pipe	100	Metre		
Rate in words.....					
<b>D</b>	<b>LIGHT/POWER/AC DBs</b>				
5	SITC of 6 way three Phase segregated double door type company made MCB DB comprising 40A 4P isolator -1no as incomer, Phase incomer - 40A DP ELCB-3nos and 6-10A SP MCBs-18 nos as outgoing and required number of dummy plates as out going on wall or in flush with wall with necessary interconnections and earth connections.	3	Each		

6	SITC of 8 way VTPN double door type company made MCB DB comprising 63A 4P isolator -1no as incomer, 32A TP MCB - 4nos & 32A SP MCB - 12 nos as outgoings and required number of dummy plates as out going on wall or in flush with wall with necessary interconnections and earth connections.	9	Each		
Rate in words.....					
7	Supplying & fixing of following metal clad plug and socket in acompany made sheet steel enclosure on wall/in flush with wall with necessary connections and earth connections.				
7.1	20A single phase MC Plug controlled by 20A SP MCB.	15	Each		
Rate in words.....					
7.2	32A 3phase MC PLUG controlled by 32A TPN MCB.	8	Each		
Rate in words.....					
8	Supplying & fixing of following rating MCBs in a company made sheet steel/weather proof enclosure on wall/ concealed on wall to fix the MCB/ isolators with connections, testing and commissioning etc as required.				
8.1	6 - 32 Amperes Single pole	10	Each		
Rate in words.....					
8.2	6 to 32 Amperes double pole MCB	10	Each		
Rate in words.....					
8.3	6 to 32 Amperes triple pole MCB	5	Each		
Rate in words.....					
8.4	40 amperes triple pole MCB	5	Each		
Rate in words.....					

8.5	63 amps 4 pole MCB	5	Each		
Rate in words.....					
<b>E</b>	<b>LIGHT FITTINGS and FANS</b>				
9	Supply and fixing of following prewired Light fitting complete set with lamp & electronic ballasts and other required accessories on wall / ceiling with necessary interconnections and earth connections.				
9.1	1200mm x 28 w T5 single box type fitting with HF ballast and Tubes. (LHIT01128032/T5GP28EB/TMS122 M 1XTL5 28W EBT /160483 BTIR 128)	20	Each		
Rate in words.....					
9.2	FWG307 (23W) Philips make wall washer fitting	30	Each		
Rate in words.....					
9.3	Philips make TPH824 2XTL5-28 W EBP OD Surface Mounted and suspend luminaries including steel wire accessories for suspension.	50	Each		
Rate in words.....					
9.4	Philips make TPH824 2XTL5-14W EBP IND Surface Mounted and suspend luminaries including steel wire accessories for suspension.	40	Each		
Rate in words.....					
9.5	Philips make TPS618 2xTL5-28W DI HFP 228 Surface Mounted and suspend luminaries including steel wire accessories for suspension.	16	Each		
Rate in words.....					

9.6	PHILIPS make BBS 175 1XDLED-5000 PSU WH LED Recess Mounted fitting complete set	45	Each		
Rate in words.....					
9.7	Crompton make LCTLR-34-FO-CDL 34 W LED Fittings or equivalent in list of Approved make .	150	Each		
Rate in words.....					
9.8	Street light LED fitting complete set with built in Drive .(Philips Model BRP 020 1x 10LED-HP/CW/PSU GR)	15	Each		
Rate in words.....					
9.9	10W LED housed in a SS enclosure with necessary clamps, brackets, etc as required.( LCDV-10-CDL in Crompton or equivalent in list of approved make)	20	Each		
Rate in words.....					
10	Supplying, installing, testing and commissioning of 1200 mm sweep ceiling fan, including wiring the down rods of length up to 45 cm with 1.5 sq mm FRLS PVC insulated, copper conductor, single core cable etc as required.	10	Each		
Rate in words.....					
11	Supplying and installation of 300 mm sweep heavy duty exhaust fan the existing opening with necessary interconnections and earth connections.	8	Each		
Rate in words.....					

<b>F</b>	<b>DATA and VOICE</b>				
12.0	Supply and laying of high quality CAT 6 UTP Ethernet LAN cable with FR PVC insulation in a suitable PVC conduit on wall/in flush with wall , both ends of cable identified with plastic tags. The rate should be inclusive of necessary connections for individual circuits by providing end terminations for the both ends of the cable . ( The cable, box and socket should be of same make)	3000	Metre		
Rate in words.....					
13.0	Supplying and laying of 0.51 sqmm FR PVC insulated 2 pair telephone cable in a suitable PVC conduit from the krone junctions to various locations as instructed by the engineer incharge.The rate should be inclusive of end terminations of the above cable. ( The cable, box and socket should be of same make)	1200	Metre		
Rate in words.....					
14	Supplying and fixing of RJ11 - 1no Zinc passivated metal box compete with modular front plate on wall or in flush with wall and blank plate if required and necessary connections for the telephone cables. ( The cable, box and socket should be of same make)	25	Each		
Rate in words.....					
15	Supplying and fixing of Molex make RJ45 - 1 no Zinc passivated metal box compete with modular front plate on wall or in flush with wall and blank plate if required and necessary connections for the Data cables. ( The cable, box and socket should be of same make)	65	Each		
Rate in words.....					
<b>G</b>	<b>UG CABLES &amp; TERMINATIONS</b>				
16	Supplying& Laying of following sizes PVC XLPE insulated alu. Conductor armored LTUG cable in trench of 50cm wide and 75cm depth including earth work excavation in all soils and sub soils spreading 6cm thick river sand at the bed of the trench and brick cover protection top of the cable using burnt bricks and back filling, consolidated in a regular interval of 25cm thick rammed and complying with standard specification.				
16.1	3.5c x 50 sqmm	600	Metre		
Rate in words.....					

16.2	3.5c x 25 sqmm	450	Metre		
Rate in words.....					
17	Supplying and making end termination for following sizes alu. Conductor LT UG cable using suitable compression gland with required copper ferulles / socket and other jointing materials.				
17.1	3.5c x 50 sqmm	12	Each		
Rate in words.....					
17.2	3.5c x 25 sqmm	8	Each		
Rate in words.....					
<b>H</b>	<b>EARTHING and ACESSORIES</b>				
18	Earthing with GI earth plate 600x600x6 mmthick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7m long etc with charcoal/coke and salt as required	4	Set		
Rate in words.....					
19	Supplying and laying of following size GI flat at 0.50 mt below the earth including soldering etc. as required.				
19.1	25 X 5 mm GI flat	150	Metre		
Rate in words.....					
		<b>Grand Total</b>			
<b>Grand Total Rupees in words:</b>					

Signature of the Tenderer

Seal: