

**DNIT of electrical work for E & F Block Academic Area**

Sr	Item Description	Unit	Qty	Rate	Amount
1	<b>Mains and sub Main wiring system:</b> PVC insulated (unsheathed) copper conductor cable. Supply and erection of PVC insulated multi stranded cable with copper conductor (unsheathed) left bare in pipe or casing of suitable size excluding the cost of supply and erection of pipe or casing.				
A	Cable size 1.5 mmsq multi strand PVC flexible cables, copper conductor, 1100 volts grade conforming to IS 694/1990. Make: Polycab	Mtr.	800		
B	Cable size 2.5 mmsq multi strand PVC flexible cables, copper conductor, 1100 volts grade conforming to IS 694/1990 Make: Polycab	Mtr.	800		
C	Cable size 4 mmsq multi strand PVC flexible cables, copper conductor, 1100 volts grade conforming to IS 694/1990 Make: Polycab	Mtr.	400		
D	Cable size 10 mmsq multi strand PVC flexible cables, copper conductor, 1100 volts grade conforming to IS 694/1990 Make: Polycab	Mtr.	200		
2	Supplying and laying of aluminium conductor cross linked polyethylene insulated, PVC sheathed (XLPE), conforming to IS: 7098 (Part-1)-1988 armoured and served cables to be laid 1 mtr below the ground level covered with sand cushioning and brick protection and back filling the trench including termination at both ends with proper glands & thimbles , 1100 volts grade. Cable size: 3.5 x 95 mmsq. Make : Polycab/Ecko	Mtr.	210		
3	Power Distribution Panel Board Supplying, installing, testing and commissioning of power distribution board cum meter board. Scope of work: The specification covers the design manufacturing & supply and fixing, testing, commissioning of outdoor cubical type, double door, floor mounting outdoor type power distribution board cum meter board suitable for operation of 3 phase, 4 wire, 415 volts, 50HZ supply as per specifications given below.				

	<p>INCOMING FEEDER DETAILS:</p> <ul style="list-style-type: none"> <li>• One numbers 250 Amp four pole, 36kA, Microprocessor MCCB with door operating handle, having adjustable overload, settings: as incomer. Make: Schneider along with VAF &amp; Energy Meter, Make: Schneider , 250/5 CTs of MDS/L&amp;T/AE make, RYB Indicating lamps complete in all respects</li> </ul> <p>OUT GOING FEEDER DETAILS :</p> <ul style="list-style-type: none"> <li>• Two number 125 Amp four pole, MCCB , 25kA breaking capacity, operational voltage of 415 volt AC, 50Hz. Make: Schneider or as approved by the Engineer in charge</li> <li>* Four number 63 Amp four pole, MCCB , 25kA breaking capacity, operational voltage of 415 volt AC, 50Hz. Make: Schneider or as approved by the Engineer in charge</li> </ul>	Nos.	1		
4	<p>Earthing of Sheet metal/ iron clad switches and metallic cases etc., with 25 mm x 3 mm thick electrolytic copper tape rivetted (with 10 nos. copper rivets) to 30 cm x 120 cm x 3 mm thick tinned copper plate (made cylindrical) burried 20 metre below ground level in the hole of excavation having bore dia. 125mm and surrounded by salt &amp; charcoal dust mixture (20 kg.) including fixing the copper tape on wall and in floor etc., up to 23 metre in length (including bore length). G.I. pipe 20mm dia. (Aclass) should be laid in the hole of excavation from bore surface level to 1 feet below ground level and having wire mesh funnel fixed on the top level of the pipe. 300mm x 300mm x 300mm deep haudi of bricks finished with 1:4 cement plaster and haudi covered with cast iron lid having size 300mm x 300mm around the hole of excavation. Cost to incl testing</p>	Nos.	1		
5	<p>Supply and Erection of 25mm x 3mm thick copper tape (As additional length).</p>	Mtr.	10		
6	<p>Channel for Wiring System: Supply and erection of DLP U PVC trunking system consisting of flexible covers, joints covers, clips, end caps, internal angles, cable ties, pvc gutties, screws &amp; washers etc. Size: 105 x 50 mm complete in all respects make: Legrand</p>	Mtr	20		

7	<p>Distribution Boards</p> <p>Supply and erection of recessed sheet metal distribution board of suitable size and required number of ways for mounting MCCB's, MCB's etc. including internal connections with copper conductor PVC insulated wire and thimble and bounding to the existing earth company made.</p> <p>A) Supply, Installing, Commissioning and testing of sheet metal 8 way, double door, TPN distribution board, IP-43 Protection. DBs Make: MDS legrand or equivalent model of M.G./L&amp;T/HAGER. Complete in all respects as per instructions of Engineer in charge.</p> <p>INCOMER :</p> <p>One number TPN MCB 63 Amp as a Incomer, 10KA. Make: MDS Legrand or equivalent model of MG/Siemens/L&amp;T/Hager</p> <p>OUTGOING:</p> <p>24 Nos. SP Lexic MCBs as outgoing, 10/16/20 Amp, C curve make: MDS Legrand or equivalent model of MG /Siemens /L&amp;T/Hager as approved by the Engineer in charge.</p>	Nos.	2		
8	Supply and erection of switches, sockets, power switch and sockets and other accessories (flush piano type accessories) in the existing bakelite sheet including connections and petty material etc. Make: FINE				
A	Single pole 6amp. switch flush piano type	Nos.	800		
B	3pin 6amp. wall socket flush piano type	Nos.	100		
C	Step type fan regulator (socket size & 360* turn)	Nos.	225		
9	Supply and erection of bakelite sheet of required size in existing box including necessary cutting of sheet for required number of modules as per instruction of enigneer in charge and petty material like brass screws and washers etc. Make: Super Hylam				
A	Bakelite sheet of size 18"x 24" [with max cutting of 20 s/w, 2 s/k & 6R]	Nos.	50		
B	Bakelite sheet of size 8"x 5" [with max cutting of 15A set]	Nos.	100		
10	Removal of old sheets from rooms, corridors and toilets, shifting of wiring from old to new DBs, removl of old panels etc.]	Job	1		
	<b>Total</b>				