

**ELECTRIFICATION WORK AT PROJECT LAB, M TECH RESERCH LAB AND
MICROPROCESSOR LAB IN CS/IT DEPT. AT COLLEGE OF ENGINEERING
KIDANGOOR**

SI.No.	ITEM SPECIFICATION	QTY	UNIT	RATE	AMOUNT
I	DBs				
	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required.				
i)	12 Way SPN DB - Single phase double cover (IP 42/43) -	3	Nos	1899.00	5697.00
ii)	6 way single phase double cover (IP 42/43)	2	Nos	1456.00	2912.00
iii)	4way(8+12)-VTPN Three phase double cover (IP 54)	1	Nos	7739.00	7739.00
II	DB Accessories				
	Supply and installation of the following accessories suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required				
1	100A 25kA FP MCB isolator	1	Nos	1246.00	1246.00
2	63 A FP Isolator	2	Nos	752.00	1504.00
3	40A FP Isolator	5	Nos	716.00	3580.00
4	25A 2p Isolator	2	Nos	342.00	684.00
5	40A 4 Pole100mA RCCB	5	Nos	2881.00	14405.00
6	63A 4 Pole 100mA RCCB	5	Nos	3306.00	16530.00
7	63A 10KA TP MCB	2	Nos	1369.00	2738.00
8	40A 10kA TP MCB (C curve)	1	Nos	1369.00	1369.00
9	25A 10kA TP MCB (C curve)	1	Nos	919.00	919.00
10	6A to 32 A 10kA SP MCB (C curve)	44	Nos	273.00	12012.00
11	40A 10KA DP MCB (C curve)	1	Nos	1751.00	1751.00
12	25A 10KA DP MCB (C curve)	4	Nos	957.00	3828.00
III	Cable END Box				

	Supply and installtion of Cable end boxes for Vertical DBs	1	Nos	5682.00	5682.00
IV	MV CABLES - SUPPLY AND LAYING				
	Supply ,laying and clamping of 1 no XLPE insulated and PVC sheathed armoured aluminium power cable 1.1 KV grade of the following size using clamps noted along with the cables spacing of clamps not exceeding 60cms ,making good the damages ,colour washing etc as required				
1	3.5 core 70sq mm	60	mtr	502.00	30120.00
2	3.5core 35 sq mm	10	mtr	316.00	3160.00
3	3.5core 50sq mm	10	mtr	393.00	3930.00
4	4 core 25 sq mm	10	mtr	281.00	2810.00
5	4 core 16 sq mm	10	mtr	231.00	2310.00
V	MV CABLES - END TERMINATIONS				
	Supplying and installtion of seimens/tropodur type nickel palted single compression brass cable gland for the following sqmm PVC insulated and PVC sheathed armoured aluminum/ copper conductor cable 1.1KV grade and making end termination suitable for 2/3/3.5/4 core cable of the following sizes as required including earth clamps for siemens /tropodur type cable glands for suitable length and other dimensions noted along with each size of glands for the for 16 sq.mm with 12mm wide x 1 mm thick clip and including superoior quality aluminium tubular cable socket and making core termination of cable of the following sizes including crimping etc .as required				
a	70 Sq mm	2	nos	715.00	1430.00
b	50 sq mm	2	nos	650.00	1300.00
c	35 sq mm	2	nos	490.00	980.00
d	25 sq mm	2	nos	475.00	950.00

e	16 sq mm	2	nos	350.00	700.00
VI	SUB MAIN WIRING				
	Supply and drawing 650/1100 V grade PVC insulated stranded single core copper conductor FRLS cables conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.				
a	2.50 sq mm 2 run+1.50 sqmm green Cu wire (Computer point+ Power plug)	339.366	m	126.00	42760.00
b	10.00 sq mm 2 run	260	m	227.00	59020.00
c	6.00 sq mm 2 run	110	m	144.00	15840.00
d	6.00 sq mm 4 run	290	m	260.00	75400.00
VII	PVC CONDUITS AND ACCESSORIES				
	Supply and fixing the following sizes of medium guage PVC Conduit conforming to IS 9537/1983 part III along with all required accessories on surface including making good the damages etc as required				
a	20 mm	150	m	41.00	6150.00
b	25 mm	50	m	49.00	2450.00
c	Supplying and clamping the 50 mm dia of corrugated PVC flexible conduit with necessary compression gland with locking ring and check nut at termination pointed using suitable size GI / painted MS saddles spacing not exceeding 60 cms on surface including making good the damages, colour washing etc. as required.	70	m	156.80	10976.00
d	Supply and Fixing rigid pvc Trunking on wall as per discription in drawing size 50x50 mm white colour with all acessories including fixing screw washer ect.(MK or precision make)	120	m	150.00	18000.00

VIII	Industrial plug & socket Approved Make:Legrand/L&T				
	Supply and fixing SP & N/TP & N metal case enclosure with 2/4 pole and earth plug socket with pin suitable for incorporating , DP/4P MCB (excluding cost of DP/4P MCB) in surface/ recess including giving necessary connections, making good the damages etc. as required. (For AC, UPS & ATM Supply termination)				
a	415V,40A,4 pole and Earth/ Four pole enclosure	5	Nos	983	4915.00
b	40A FP MCB (C curve)	5	Nos	1926	9630.00
c	Charges for cutting holes suitable for accommodating exhaust fans of sizes up to 305 mm sweep including plastering, colour washing etc. as required.	2	E	294	588.00
d	Supply conveyance installaion and testing of 300/ 305 mm, single phase light duty exhaust fan in metal frame (Group A)	2	E	1466	2932.00
IX	COMPUTER POINTS				
a	Supply and installation of 3nos 6A 3 pin sockets controlled by 1 no16A SP control switch in single company made surface box with front and inner plate etc complete in position and giving connection using modular accessries. (For computers outlets)	43	nos	1,100.00	47300.00
X	SOCKET OUTLETS				
a	Supply and installation of 16A 3 pin plug point in with 16A control switch in company made metal box.	1	nos	825	825.00

	b	Supply and installation of 5/6A 3 pin plug point in independent position with control switch including cost of pipe, wires earth wires MS box, front plate switch socket ect . Complete as required.	7	nos	496	3472.00
XI		Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (Group B)				
	a	2 module metal box in recess	5	nos	141.40	707.00
	b	3 module metal box in recess	5	nos	148.00	740.00
	c	4 module metal box in recess	5	nos	161.00	805.00
	d	5 module metal box in recess	5	nos	165.20	826.00
XII		Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (Group B)				
	a	2 module white/ off-white	5	nos	96.6	483.00
	b	3 module white/ off-white	5	nos	109.2	546.00
	c	4 module white/ off-white	5	nos	120.4	602.00
	d	5 module white/ off-white	5	nos	137.20	686.00
	e	6 module white/ off-white	5	nos	165.00	825.00
XIII		Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (Group B)				
	a	6A SP One way Switch with indicator	10	nos	113.40	1134.00
	b	16A SP One way switch with indicator	10	nos	133.00	1330.00
	c	6A Universal Socket	10	nos	168.00	1680.00
	d	6/16A Universal Socket	10	nos	236.60	2366.00
	e	blank plates 1M	10	nos	25.20	252.00
	f	blank plates 2M	10	nos	40.60	406.00
	g	blank plates 4M	10	nos	33.60	336.00
XIV		EARTHING				
	a	Supply and drawing No.10 SWG copper along the wiring and earth lead.	90	mts	62	5580.00

	Supply of superior quality copper b earth socket for No 10SWG copper conductor including crimping	8	nos	19	152.00
	TOTAL				450000.00
(Rupees Four Lakh Fifty thousand only)					