



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Name of work : Supply & Laying Electricals Cables & SITC of Electrical Panel for Civil Engineering Department, MNIT Jaipur.

G Schedule

Name of the Firm:-

S.No	Qty	Items	Unit	Rate	Amount
1	12.0	SITC of wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet , required hardware ,duly treated for derusting in 7 tank process with dephosphating and with powder coating on both side of panel in desired shade The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. base channel ,hinged door with locking arrangement for equipment/switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required . Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure. (only outer area on all sides shall be measured & panel to be fabricated from CPRI approved fabricator)	Sqm	2752.00	33024.00
2		Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves.			
2.1	8.0	Electrolytic grade Aluminium bus bar	Kg	420.00	3360.00
3		SF of (0-500) V range Volt meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Make :-Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG			
3.1	1.0	Digital type, Gr.I	Each	1100.00	1100.00
4		SF of CT operated direct reading type Ampere meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Make :-Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG			
4.1		Digital type, Gr.I			
4.1.1	1.0	Below 500 A, Gr.I	Each	1100.00	1100.00
5		SF of Current Transformer , with all necessary support in existing panel including connection etc. as required . Make :- C&S, L&T, Nippen, Schneider, Siemens, AE, Kappa, Milborn			
5.1	3.0	from 200 / 5 to 400/5 Ratio , 10 VA , class 1 accuracy, Gr.I	Each	323.00	969.00
6	1.0	SF of selector switch of 10 A for voltmeter (4 position) including making connection etc. as required . Make :- GE, Siemens, C&S, HPL, L&T (salzer), ABB, Schneider	Each	228.00	228.00
7	1.0	SF of CT linked selector switch of 10 A for Ampere meter (4 position) including making connection etc. as required . Make :- GE, Siemens, C&S, HPL, L&T (salzer), ABB, Schneider	Each	286.00	286.00
8		SF of 110/220 V, LED (22.5 mm dia) Indicating lamp with integral circuit, terminal block, including connection etc. as required. Make:-Siemens, C&S, GE, ESBEE (L&T), BCH, ABB, Schneider, Vaishno, Rass control, Kaycee, HPL,Milborn			
8.1	2.0	Red/yellow/Green colour, Gr.I	Each	150.00	300.00
8.2	1.0	Blue colour, Gr.I	Each	250.00	250.00
9		SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault trip, push (test) to trip , including making connections with lugs & spreaders, etc. as required. Make :-ABB, Siemens, GE, L&T, Schneider, Legrand, C&S, HPL,Indoasian, BCH			
9.1		With Thermal Magnetic release			
9.1.1	4.0	up to 100 Amp , 25 kA, fixed O/L & S/C setting	Each	4302.00	17208.00
9.1.2	4.0	up to 100 Amp , 25 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu	Each	6341.00	25364.00
9.1.3	1.0	250 Amp , 35 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu, Gr.I	Each	18989.0	18989.00
10		Supply and fixing of following accessories for MCCB			
10.1	1.0	Extended Rotary Handle	Each	2041.00	2041.00

11		P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections, testing etc. as required. Make :- Schneider (neo break), Siemens, HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270)			
11.1		Triple pole & neutral MCB			
11.1.1	2.0	6 A to 32 A rating	Each	918.00	1836.00
11.1.2	2.0	40 A 63 A rating	Each	1321.00	2642.00
11.2		Single pole MCB			
11.2.1	3.0	0.5 A to 5 A rating	Each	206.00	618.00
12		Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. Make :- RR Kabel , National, Finolex			
12.1	20.0	1 x 10.0 sq.mm	Mtr.	78.00	1560.00
13		P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,Ind class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Gloster ,CCI, Finolex			
13.1		16.0 Sq.mm			
13.1.1	284.0	4 core	Mtr.	190.46	54090.64
13.2		25.0 Sq.mm			
13.2.1	205.0	3.5 core	Mtr.	208.00	42640.00
13.3		35.0 Sq.mm			
13.3.1	144.0	3.5 core, Gr.AI	Mtr.	269.64	38828.16
13.4		70.0 Sq.mm			
13.4.1	340.0	3.5 core	Mtr.	388.00	131920.00
14		Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Make :-Gripwel, Comet, Metalcraft, Cabend, Trinity Touch, HMI			
14.1	4.0	3.5 x 25.0 sq.mm	Set	114.00	456.00
14.2	3.0	3.5 x 35.0 sq.mm	Set	119.00	357.00
14.3	4.0	3.5 x 70.0 sq.mm	Set	186.00	744.00
14.4	4.0	4 x 16.0 sq.mm	Set	108.00	432.00
15		Supplying and making end termination with heavy aluminium lugs (Pin / ring type) duly crimped with crimping tool, PVC tape etc of following size. Make :- Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch			
15.1	16.0	16.0 Sq.mm	Each	9.00	144.00
15.2	16.0	25.0 Sq.mm	Each	10.00	160.00
15.3	12.0	35.0 Sq.mm	Each	12.00	144.00
16		Supply, Fabricating & installing following sizes of powder coated perforated M.S. cable trays including horizontal and vertical bends, reducers tees,cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders, fastners, supports etc. as required. Make :-Veenus, Pasco, Storrax, Skaber, Profab, Pilco, Slotco, Needo			
16.1	10.0	300mm x 50mm x 1.6mm	Mtr.	565.00	5650.00
			Grand Total		386440.80
				Say Rs.	386441.00

Sr.No.	Descripti on of Item	Estimated cost of work (in Rupees)	Percentage "Above" or "Below" or "At par" the Estimated cost of			
			Rate Quoted by Contractor As	Price		
			"Above" or "Below" or "At Par"	% in Figures	In Words	Total Cost (in Rupees)
1	2	3	4	5	6	7
1		386441				-
TOTAL COST OF SCHEDULES:-		3,86,441.00	TOTAL QUOTED PRICE=			0.00
Grand Total (in words)						