

**BILL OF QUANTITY**

**NAME OF WORK :- SITC of New Cubicle Panel by removing old (existing) panel an improvement of IEI in the workshop of I.T.I, Takyel, Imphal West, Manipur (INTERNAL ELECTRICIFICATION AND INSTALLATION)**

SI No.	Description of items	Qty	Unit	Rate (in rupees)	
				(in figure)	(in word)
1	2	3	4	5	6
1	Wiring for Light point/Fan point/Exhaust Fan point/Call Bell point with 1.5mm <sup>2</sup> P.V.C insulated copper conductor single core cable in P.V.C casing capping with modular type switch, modular plate size, G.I. Box and earthing the point with 1.5mm <sup>2</sup> P.V.C insulated copper conductor single core cable etc. as regd.				
	i) Group A				
		16	Rs.915.70		
	ii) Group B				
		36	Rs.1,114.30		
2	Wiring for circuit and sub-main wiring along with earth wire with (the following sizes) of FR P.V.C insulated wire with (the following sizes) of FR P.V.C insulated copper conductor single core cable in P.V.C casing and capping etc. as regd.				
	i) 2x1.5mm <sup>2</sup> + 1x1.5mm <sup>2</sup> earth wire	400.00	Rs.181.90		
	iii) 2x4mm <sup>2</sup> + 1x4mm <sup>2</sup> earth wire	220.00	Rs.286.80		
	iv) 4x6mm <sup>2</sup> + 2x6mm <sup>2</sup> earth wire	250.00	Rs.714.40		
3	35mm <sup>2</sup> 4 core P.V.C/XLPE, insulated heavy duty armoured cable 1.1KV grade	750	Rs.434.00		

4	Laying & fixing of 1 no. PVC insulated PVC sheathe power cable of 1.1KV grade of size not less than 25mm <sup>2</sup> but not exceeding 120 mm <sup>2</sup> on surface as reqd.	750	Rs.109.20		
5	Fabrication of Control Panel board by 16 guage steel sheet, along with components mounting, making strips wiring auxialiary components, wiring all over the panel i/c fixing charge, painting etc. as regd.	20	Rs.2,950.00		
6	Indicating Lamp	3	Rs.180.00		
7	Voltmeter range 0-500V	1	Rs.850.00		
8	Ammeter range 0-200V	1	Rs.850.00		
9	Current Transformer Coil range 0-200amp	3	Rs.750.00		
10	Selector switch for ammeter and voltmeter	2	Rs.630.00		
11	Panel internal power wiring by 40x6mm <sup>2</sup> copper strips	3	Rs.600.00		
12	Providing and fixing (following rating and breaking capacity) MCCB in existing cubicle panel board including drilling holes in cubicle				
	i) 4 pole MCCB 315amp 35KA	1	Rs.23,247.20		
	ii) 4 pole MCCB 125amp 25KA	10	Rs.6,972.20		
13	S/F moulded case circuit breaker (MCCB) AC-415 V having a sensitive current upto 300 mA in the existing MCB DB complete with connection				
	a) 63 Amp 4 pole 230 V 300 mA	6	Rs.6,526.20		
	b) 100 Amp 4 pole 230 V 300 mA	4	Rs.7,273.00		

14	Supplying and fixing 5amp to 32amp rating 230V 'B' series MCB for lighting and other load of (following poles) in the existing MCB DB complete with connection testing and commissioning etc. as regd.				
	i) Single pole & neutral	26	Rs.231.60		
	ii) Triple pole & neutral	16	Rs.1,860.60		
15	Wiring for Light point/Power plug with 2x4mm <sup>2</sup> P.V.C insulated copper conductor single core cable in P.V.C casing capping along with 1 no. 4mm <sup>2</sup> P.V.C insulated copper conductor single core cable for loop earthing etc. as regd.	24	Rs.292.75		
16	Wiring for Light point/Power plug with 4x4mm <sup>2</sup> P.V.C insulated copper conductor single core cable in P.V.C casing capping along with 1 no. 4mm <sup>2</sup> P.V.C insulated copper conductor single core cable for loop earthing etc. as regd.	16	Rs.494.50		
17	S/F (following way) 3 pole and neutral, sheet steel, MCB distribution board 415V on surface/recessed complete with tinned copper bus bar neutral bus bar, earth bar, din bar detachable gland plate, interconnection, phosphatized and powder painted including earthing etc. as regd. (but without MCB/RCCB/Isolator).				
	i) 4 way (4+12 Double door horizontal type)	10	Rs.4,628.40		
18	S/F Luker high bay LED indoor light 40W White LHBYC40	36	Rs.2,772.00		
19	S/F 48" sweep (1200mm) A.C. ceiling fan complete with down rod, canopy, 3 (three) blades but without regulator etc. as regd. (Make Bajaj/Usha/Similar)	16	Rs.2,554.00		

20	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc. as regd.	16	Rs.588.90		
21	Earthing with copper earth plate 600mmX600mmX6mm thick i/c accessories and providing masonry enclosure plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as regd.	1	Rs.11,114.00		
23	Extra for using salt and charcoal for G.I. or copper plate electrode as regd.	1	Rs.2,363.50		
24	P/L earth connection from earth electrode with 4mm dia copper wire in 15mm dia G.I. pipe as regd.	10	Rs.230.80		