PONDICHERRY UNIVERSITY ELECTRICAL WING

SCHEDULE OF WORK

Name of Work: Providing power supply to the Air conditioner units for the Faculty room, strengthening the incoming supply and replacing the damaged DB's in Science Block I & II at Pondicherry University.

SI.	Description of Item	Qty.	Unit	Rate	Amount
No.					
1.	Supplying and fixing of following sizes of				
	PVC conduit along with accessories in				
	surface/recess conduit including cutting				
	the wall and making good the same in case of				
	recessed conduit as reqd.	150			
	a. 20 mm	150m	Mtr		
	b. 25 mm	200m	Mtr		
	c. 32mm	130m	Mtr		
2.	Supplying and drawing following sizes of FR				
	PVC insulated copper conductor, single core				
	cable in the existing surface/recessed				
	steel/ PVC conduit as required.				
	a. 3 x 4 sq mm	200m	Mtr		
	b. 6 x 4 sq mm	175m	Mtr		
	c. 9 × 4 <i>s</i> q mm	130m	mtr		
3.	Providing and fixing cable management				
	system of size 50mm × 50mm with suitable				
	accessories such as couplers, end caps,				
	cable retainer at an interval of 0.5 meter as	100m	mtr		
	required. make: MK / Legrend				
4.	Supplying and fixing 20 amps, 240 volts,				
	SPN industrial type, socket outlet, with 2				
	pole and earth, metal enclosed plug top along				
	with 20 amps "C" curve, SP, MCB, in sheet				
	steel enclosure, on surface or in recess,				
	with chained metal cover for the socket out	60nos	Each		
	let and complete with connections, testing				
_	and commissioning etc. as required.				
5.	Supplying, installation, testing and				
	commissioning of surface/ recess mounting,				
	following way, double door vertical type, 415				
	volts, TPN MCB distribution board of sheet				
	steel, dust protected, duly phosphatized and				
	powder painted, inclusive of 200 amps				
	tinned copper busbar, common neutral link,				
	earth bar, din bar for mounting MCB's,				
	detachable gland/ knock out plate, and interconnections between incomer and				
		10nos	Each		
	busbars of following ways (but without incomer and MCB's) as regd.	10105	Lach		
	(Legrend/Hager).				
	8 way MDS Cat no. 6077 51				

	1			1	1
6.	Supplying and fixing following rating, 'C'				
	series, miniature circuit breaker suitable				
	for lighting and other loads in the existing				
	MCB DB complete with connections, testing				
	5				
	(Legrand/Hager).				
	a. 6 amp to 32 amp single pole MCB.	130nos	Each		
	b. 63 amp 3 pole MCB.	25nos.	Each		
	c. 100amps 3 pole MCB	5nos.	Each		
	d. Single pole blanking plate.	200nos	Each		
7.		2001103	Luch		
1.	Fabrication, supply, installation, testing and				
	commissioning of MV compartmentalized				
	Floor mounted front operated cubicle panel				
	board, fabricated out of 2mm thick MS				
	sheet steel, totally enclosed dust and				
	vermin proof, suitable for operation on 3				
	phase 415 V, 4 wire AC supply system, with				
	suitable busbar capacity, having suitable				
	cable entry arrangement with detachable				
	gland plate, duly powder coated, including				
	supply and fixing the following switch gear,				
	interconnection with suitable size aluminium				
	strips/bar connections, suitable base frame				
	earthing labeling etc with cable chamber,				
	Aluminium busbar chamber conforming to				
	section-4 of CPWD specification for				
	Electrical work part IV substation 1982.				
	etc., including dismantling the old existing				
	Panel boards and cables complete as				
	required. (size not less than 1800mm length				
	x 300mm breath x 1700mm height).				
	(switches Make: L&T)				
	A. Incoming				
	a. 400A TPN/415V/50HZ SDFU with				
	DIN type HRC fuses1nos.				
	b. Multi function digital VAF meter				
1	along with CTs. (Digital) make HPL.				
	c. Phase indication lamps arrangement				
	(LED type) with toggle switches and				
	control fuses etc., —1set.				
	d. Aluminium busbar size 80mm × 6mm.				
	B. <u>Outgoing</u>				
	a. 200 A TPN/415V/50HZ SDFU with				
	DIN type HRC fuses2nos.				
	b. 125 A TPN/415V/50HZ SDFU with				
	DIN type HRC fuses6nos.	1 job	job		
	c. G.I. Earth bus of suitable size with	- 100	J		
	earth studs at both ends 1no .				
	d. MV danger notice plate2no.				
	etc., as above				

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8.	Supplying and fixing of following				
	TPN/415/50HZ Switch Disconnected Fuse				
	Unit with din type fuse in the existing panel				
	board /Feeder pillar as required. Make L&T,				
	GE.				
1	a. 125A SDFU.	5nos.	Each		
	b. 200A SDFU.	1no.	Each		
	c. 315A SDFU.	1no.	Each		
9.	Supply of following size of XLPE insulated,				
	sheathed armoured UG aluminium conductor				
	power cable 1.1 KV grade as required. (make:				
	Polycab, Havells)				
	a. 4 x 25 sq mm.	200m	mtr		
10.	Laying and fixing of one number PVC				
	insulated and PVC sheathed / XLPE power				
	cable of 1.1 KV grade of following size on				
	wall surface as required.	200m	mtr		
	a. Upto 35 sq. mm (clamped with 1mm	200111			
	thick saddle)				
11.	Supplying and making end termination with				
· · ·	brass compress gland and aluminum lugs for				
	following size of PVC insulated and PVC				
	sheathed/XLPE alu conductor cable of 1.1kv				
	grade as required.				
	.	25nos	Each		
	a. 4 x 25 sq mm.	20105	Each		
12.	Earthing with G.I. earth plate 600 mm X	•			
16.	600 mm X 6 mm thick including accessories,				
1	and providing masonry enclosure with cover				
	plate having locking arrangement and	2set	2set		
	watering pipe of 2.7metre long etc. with	2361	2361		
1					
1	charcoal/ coke and salt as required.				
13.	Supplying and loving 25 mm V 5 mm GT atria				
13.	Supplying and laying 25 mm X 5 mm G.I strip				
1	at 0.50 metre below ground as strip earth				
1	electrode, including connection/terminating	25			
1	with G.I. nut, bolt, spring, washer etc. as	25m	mtr		
	required. (Jointing shall be done by				
	overlapping and with 2 sets of G.I. nut bolt				
	& spring washer spaced at 50mm)				
14.	Providing and fixing 25 mm X 5 mm G.I.				
	strip in 40 mm dia G.I. pipe from earth				
1	electrode including connection with G.I. nut,	12m	mtr		
1	bolt, spring, washer excavation and re-filling				
	etc. as required.				
15.	Earthing with G.I. earth pipe 4.5 metre long,				
	40 mm dia including accessories, and				
	providing masonry enclosure with cover				
	plate having locking arrangement and	8set.	set		
	watering pipe etc. with charcoal/coke and				
1	salt as required.				
		1	1	1	1

16.	Providing and fixing 4.00mm dia copper wire on surface/ in PVC pipe / in recess for loop earthing as required.	200m	mtr			
	TOTAL					