

BOQ

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Sub: Provision of power points, 3 phase connection, cabling, trunking, etc at IISER Mohali.

Sr.no	Description of Item	Qty.	Unit	Rate	Amount
1/1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. Make: Polycab, Havells, ABB,Finolex				
1.17.3	3 X 1.5 Sq. mm	50	mtrs		
1.17.21	3 X 4 Sq. mm	500	mtrs		
1.17.30	3 X 6 Sq. mm	925	mtrs		
NS	3 X 10 Sq. mm	30	mtrs		
NS	5 X 16 Sq. mm	20	mtrs		
NS	4 X 16 Sq. mm	100	mtrs		
NS	3 X 16 Sq. mm	80	mtrs		
NS	1 X 10 Sq. mm	60	mtrs		
2/7.7	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				
7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	10	mtrs		
7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	100	mtrs		
3/NS	Providing 3.5 X 25 sq mm armoured PVC XLPE insulated aluminium conductor cable of 1.1KV grade.Make : Havells/Polycab/Ecko.	10	mtrs		
4/NS	Providing 3.5 X 70 sq mm armoured PVC XLPE insulated aluminium conductor cable of 1.1KV grade.Make : Havells/Polycab/Ecko.	100	mtrs		
5/1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Make : ABB,L& T,Anchor Roma				
1.24.1	5/6 Amps switch	10	nos		
1.24.3	15/16 amp switch	940	nos		
1.24.4	3 pin 5/6 A socket outlet	10	nos		
1.24.5	6 pin 15/16 amp socket outlet	940	nos		
6/2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)Make : ABB,Schneider,Havells				
2.5.2	8 way (4 + 24), Double door	3	each		
7/2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)Make : ABB,Schneider,Havells				
2.3.3	12 way,Double door	2	each		
2.3.4	16 way,Double door	12	each		
8/NS	Supplying and Fixing PVC Trunking on the wall with base i/c. accessories etc. as required. Make: MK, ABB or eq				
a)	100 X 50 mm	60	mtrs		
b)	50 X 50 mm	450	mtrs		
c)	25 X 10 mm	50	mtrs		
9/NS	Supplying and Fixing following size PVC modular box as required, Make: ABB,L&T,Anchor Roma,Greatwhite				
a)	3 Module	10	nos		
b)	6 Module	70	nos		

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c)	12 Module	200	nos		
10/1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required. Make: ABB,L&T,Anchor Roma,Greatwhite				
1.28.2	3 Module	10	nos		
1.28.4	6 Module	70	nos		
1.28.6	12 Module	200	nos		
11/2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make : ABB/Schneider/Havells				
2.10.1	Single pole	126	each		
2.10.2	Single pole and neutral	25	each		
2.10.4	Triple pole	8	each		
2.10.5	Triple pole and neutral	4	each		
12/NS	Supplying and fixing 40-63 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make : ABB/Schneider/Havells				
a)	Double pole	5	nos		
13/NS	Chemical earthing with copper bonded steel rod with three gem chemical bag with clamps in pit. Make : Erico/Growth/JMB	8	nos		
14/NS	P/f water proof MS/GI powder coated box of dimensions 2'X2'X8" for outdoor mounting exposed to all weather conditions with closing single door mounted on hinges.	1	nos		
15/2.16	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A, 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	15	each		
16/2.2	Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A, "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. Make : ABB/Schneider/L&T or eq	5	each		
17/2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. Make : ABB/Schneider/L&T or eq				
2.2.1	100 A, 16 kA, TPMCCB	4	nos		
2.2.13	100 A, 30kA, FPMCCB	1	nos		
2.2.15	200 A, 36kA, FPMCCB	2	nos		
18/NS	Supplying and fixing 63 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make : ABB/Schneider/Havells				
a)	Triple pole	4	nos		
b)	Triple pole & Neutral	4	nos		
19/NS	Supply and fixing sheet steel TPN enclosure with 1 No of following capacity TPN , on surface/ recess, powder coated including earthing etc. as required. Make : ABB/Schneider/L&T				
a)	32Amp	5	each		
b)	63Amp	5	each		
20/5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	25	mtrs		

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21/NS	Supplying and Fixing medium class ISI marked PVC conduit on the existing surface i/c. accessories etc. as required. Make: Diplast/AKG or eq				
a)	25 mm diameter	100	mtrs		
22/NS	P/f TPN MCCB box,powder coated in MS/GI for MCCB upto 100A	4	each		
23/NS	Supply and fixing of 18W surface mounting LED light fitting on the existing surface with all connections,testing as required. Make : Philips/CG/Havells/Syska	12	nos		
	Total				

Contractor