

BOQ

Sub: Provision of cabling, trunking, power points 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				
1.17.21	3 X 4 Sq. mm	240	mtrs		
1.17.30	3 X 6 Sq. mm	500	mtrs		
NS	5 X 16 Sq. mm	110	mtrs		
NS	3 X 10 Sq. mm	55	mtrs		
NS	3 X 16 Sq. mm	5	mtrs		
NS	1 X 10 Sq. mm	5	mtrs		
2/1.24	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				
1.24.3	15/16 amp switch	249	nos		
1.24.5	6 pin 15/16 amp socket outlet	249	nos		
3/2.5	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	1	each		
4/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	125	mtrs		
b)	50 X 50 mm	145	mtrs		
c)	25 X 10 mm	10	mtrs		
5/NS	Supplying and Fixing following size PVC modular box as required, Make: ABB,L&T,Anchor Roma,Greatwhite				
a)	6 Module	40	nos		
b)	12 Module	8	nos		
6/1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.Make: ABB,L&T,Anchor Roma,Greatwhite				
1.28.4	6 Module	110	nos		
1.28.6	12 Module	8	nos		
7/2.10	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	41	each		
2.10.4	Triple pole	1	each		

8/2.16	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.	5	each		
9/2.2	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	1	each		
10/2.2	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				
2.2.15	200 A,36kA, FPMCCB	1	nos		
11/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	3	each		
b)	63Amp	1	each		
12/2.3	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				
2.3.2	8 way,Double door	1	each		
13/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	4	nos		
14/7.7	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)	40	mtrs		
15/2.3	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				
2.3.4	16 way,Double door	1	each		
16/NS	Chemical earthing with copper bonded steel rod with three gem chemical bag with clamps in pit. Make : Erico/Growth/JMB or eq.	3	nos		
17/5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	80	mtrs		

18/5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	9	set		
19/5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	40	mtrs		
20/5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	100	mtrs		
21/5.1	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	15	mtrs		
22/NS	Making a tunnel like bore of upto 4 inches dia (booki) across and below any permanent surface feature like road to pass power cable through it.	15	mtrs		
23/7.3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering.				
7.3.1	Upto 35 sq. mm	100	mtrs		
24/NS	P/f sheet steel powder coated DP box as reqd. Make : ABB/Schneider/Indo Asian/Havells.	5	each		
	Total				