

Central Mechanical Engineering Research Institute, Durgapur
Engineering Service Division (Electrical)

e of Wc 3 phase Power from Room no.103 to Furnaces,grinder machine,sand testing equipment etcin the respective room and Electrification work in CRTDH Ground for KRC in the respective room and Electrification work in CRTDH Ground floor,CMERI-Institute.

S.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs)
1	Supply of 1.1 KV grade XLPE insulated, PVC seathed, Aluminium conductor armoured power cables conforming to IS 7098 (Part - 1) 1988 and ISI marked of following sizes.				
	4 X 35 sq mm A2XWY/A2XFY cable.	23	Mtr		
2	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. Upto 35 sq. mm (clamped with 1mm thick saddle)	6	Mtr		
3	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required				
	Upto 35 sq. mm	17	Mtrs		
4	Supply & making end termination with brass compressor gland and aluminium lugs and other materials for following sizes of 1.1 KV PVC insulated aluminium conductor armoured cables to the equipment complete as required.				
	4 X 35 sq. mm (32mm)	12	Each		
5	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.				
	Triple pole and Neutral	4	Each		
6	Providing & fixing with 1 no. 63 Amp, 'C' curv-10 KA, TP MCB+Neutral and Din Channel for installing it including connection & body earthing complete as required.				
		3	Nos		

MDM
8-8-17

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7	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm.FRLS PVC insulated, copper conductor Single core cable in surface / recessed steel conduit ,with piano type switch ,phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required :	5 nos		
8	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 amps & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc as required.	19 nos		
9	Supply & fixing of heavy duty Exhaust Fan.MAKE-Orient/CG/EQUIVALENT	2 nos		
10.a	8 WAY DB Double door	2 nos		
10.b	12 WAY DB Double door	1 nos		
11	Supply & fixing of heavy duty CEILING Fan.MAKE-Orient/CG/EQUIVALENT	2 nos		
12	fitting & fixing of 2 nos. Exhaust fan including wall cutting and finishing	1 LS		
13	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.			
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	15 mtrs		
			Total	

H/M
9.8.19

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Name of the work : : 3 phase Power from Room no.103 to Furnaces,etc for CRTDH
control (north east) building at CMERI(Institute) Durgapur

Make of Electrical material

S.No.	Item	Make
1	1.1 KV grade XLPE insulated, PVC seathed, Gloster/polycab/equivalent Aluminium conductor armoured power cables	
2	PVC copper flexible wire:-	Finolex / Polycab / Bonton / RR Kable/equivalent
3	MCB / MCCB / DB / MCB encloser :-	Legrand / Hagger/equivalent
4	Wall mounted Fan/exhaust fan	Orient/CG/Equivalent
5	LED Tube 4foot20 W with fittings	Eveready/C&S/Pyrolech/Philips

