

CSIR-NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY
(Council of scientific and industrial research)



NAME OF WORK :Electrification works to DATA Centre in Engineering Block at CSIR-NEIST, Jorhat

SI No	Particulars of the item	Qty	Unit	Rate in figures in	Rate in words	Amount in Rs.
1	Wiring for light/fan /exhaust fan/call bell point with 1.5 sq. mm. Size PVC insulated unsheathed 1.1 KV grade approved by the department single core multistrand copper conductor cable(Finolex/Havells/KEI Make) in surface PVC casing caping wiring system including 6A single way flash tyep switch (Maru Neo Speed /Indoasian Make) ceiling rose , angle holder (Maru Neo speed/Indoasian , 4x4 PVC switch board (Presto Plast) etc in 19 mm size flate PVC cashing caping (Presto Plast Make) complete as required and directed by deptt. Long Point					
	(i) Short Point Up to 3.00 M Length	10	Each			
	(ii) Medium Point up to 6.00 M Length	18	Each			
	(iii) Long point up to 10.00 M Length	23	Each			
2	Wiring for 5 pin 16 A power plug point with 4.0 sq. mm PVC insulated unsheathed multistrand (Finolex/Havells/KEI Make) single core copper conductor cable in surface PVC casing caping (Presto Plast) wiring system including providing and fixing 5 pin 16 A flush type switch (Maru Neo speed/Anchor Penta /Indoasian) and socket (Maru neo speed, Anchor Penta/Indoasian) , fitted on 8 x 10 size PVC switch board cover including earth continuity with 2.5 sq.mm wire to the third pin of the plug socket etc complete as required and specified by deptt.					
	(a) Short Point up to 3.00 M Length	6	Each			
	(b) Medium Point up to 6.00 M Length	8	Each			
	(c) Long point up to 10.00 M Length	12	Each			
3	Supplying fitting and fixing of 16/6A flash type switch and socket on the existing switch board cover complete with all necessary connection as required. Maru Neo Speed/Anchor Penta/ Make	26	Each			
4	Wiring for sub-main wiring with the following size of PVC insulated, unsheathed wire, single core cable (Finolex/Havells/KEI Make) in surface PVC casing caping (presto Plast) as required.					
	(a) With 2x 2.5 sq. mm. + earth continuity 1x 1.5 sq. mm. PVC insulated unsheathed single core copper in PVC cashing caping.	100	Mtr			
	(b) With 4x 10.0 sq. mm. + earth continuity 1x 6.0 sq. mm. PVC insulated unsheathed single core copper in PVC casing caping.	30	Mtr			

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	(c) With 4 x 4 sq. mm. + earth continuity 2 x 2.5 sq. mm. PVC insulated unsheathed single core copper in PVC casing capping.	60	Mtr			
	(d) With 2 x 6 sq. mm. + earth continuity 2 x 4 sq. mm. PVC insulated unsheathed single core copper in PVC casing capping.	120	Mtr			
	(e) With 4x 16 sq. mm. + earth continuity 2 x 10 sq. mm. PVC insulated unsheathed single core copper in PVC casing capping.	40	Mtr			
5	Supplying with fitting and fixing MCCB incomer and MCB outgoing 4 way TPN (4+36) sheet steel phosphatised, power painted double door surface mounting vertical TPN MCB DB incorporated with bus bar, neutral link, earth bar and din rail etc.. complete with making necessary connection as specified and directed by deptt. (Havells/Legrand/Crabtree/Indoasian Make	1	Each			
6	Supplying, installation, testing and commissioning of decorative 1 x 20 watt 5700 K LED tube light luminaries (double end connection) complete with surface mounting tube light frame suitable for 20 watt LED light including connection with 1.5 sw. mm. Single core copper wire as required and directed by deptt. Havells Make	28	Each			
7	Supplying, installation, testing and commissioning of decorative 2 x 20 watt 5700 K LED suspended tube light luminaries complete with suspension chain, LED, frame including connection with 1.5 sw. mm. Single core copper wire as required and directed by deptt. Havells Make. Cat No. LHECDOL7PW1W020	6	Each			
8	Supplying with fitting and fixing 4+12 way sheet steel phosphatised, power painted double door surface mounting vertical MCB TPN MCB DB incorporated with bus bar, neutral link, earth bar and din rail etc. complete with making necessary connection as specified and directed by deptt. (Legrand Make)	1	Each			
9	Supplying with fitting and fixing 12 way sheet steel phosphatised, power painted double door surface mounting SPN MCB DB incorporated with bus bar, neutral link, earth bar and din rail etc. complete with making necessary connection as specified and directed by deptt. (Legrand Make)	4	Each			
10	Supplying with fitting and fixing sheet steel phosphatised power painted single door surface mounting 4 way MCB enclosure and necessary connection as directed by deptt. Legrand/Havells/Crabtree/Indiasian Make	6	Each			

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11	Supplying with fitting and fixing sheet steel phosphatised power painted single door surface mounting 2 way MCB enclosure and necessary connection as directed by deptt. Legrand/Havells/Crabtree/Indiasian Make	6	Each			
12	Supplying with fitting and fixing 10 kA 240/415 v 50 Hz. B-series MCB of following capacity complete with necessary connection and terminal lug as reqd.					
	(a) 4 Pole 25 KA 125A MCCB (Legrand Make)	1	Each			
	(b) 3 Pole 63A MCB (Legrand Make)	8	Each			
	(c) 32 A single Pole MCB (Legrand Make)	60	Each			
	(d) 63 A 4 Pole MCB (Legrand Make)	5	Each			
	(e) 40 A 4 Pole MCB (Legrand Make)	2	Each			
	(f) 32 A double Pole MCB (Legrand Make)	6	Each			
13	Supplying with installation & commissioning of readymade maintenance free CPRI approved chemical earthing system with 50 mm dia 3.00 metres length corrosion free single pipe technology copper CHEMRODW ELECTRODE or equivalent make complete with RESLOW grounding mineral 25K and advance earth pit cover including excavation of earth pit and construction of brick earth chamber including plastering both inner and outer surface of brick wall as specified and directed by deptt	2	Each			
14	Supplying and laying of 25 x 5 mm size copper strips drawn on surface from earth electrode to switchgears, machineries etc complete with supply of brass nuts & bolts, screws etc including 32mm dia covering GI pipe, reveting, soldering & making necessary connection as approved and directed by deptt.	20	Mtr			
15	Supplying of FR PVC insulated and sheathed following size round copper flexible wire with necessary connection as required. Havells/Finox Make					
	(a) 3 core 6 sq.mm	220	Mtr			
	(b) 4 core 6 sq.mm	70				
	(c) 4 core 16 sq.mm	20				
	(d) 4 core 25 sq.mm	15				

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16	Supplying including installation, commissioning of vermin and dust proof totally enclosed phosphatised powder painted cubical indoor type floor /wall mounting compartmental panel board of size 0.6M x 1.25M x 0.40M made of 16 SWG (1.66mm) thick C.R. sheet and 35 mm x 35mm x 5mm size angle having 4 nos. legs at the bottom. The panel board is to be erected in 1:3:6 PCC foundation including brick soiling/grouting etc complete neatly wiring done by copper wires of proper sizes with provision for two nos, 150 A 4 pole MCCB as incomer and provision for 2 nos MNX 95 power contractor works as automatic changeover switch as specified and directed by deptt conforming to IP-43 protection comprising of the following items.	1	Each			
	(a) 25mm x 5mm 4 strip copper busbar 0.5 M length : 1 set					
	(b) Digital 3 phase voltmeter. Accuracy class 0.5 : 1 No					
	(c) Digital 3 phase ammeter. Accuracy class 0.5: 1 No.					
	(d) Pilot lamp (LED) , RYB : 3 nos.					
	(e) Voltmeter and ammeter selector switch : 2 Nos.					
	(f) 2A slide fuse : 3 nos.					
17	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50 Hz 4P MCCB with adjustable setting and power cotractor of the following capacity complete with making necessary connection as approved, specified and directed by deptt. Legrand/Havells/L&T Make					
	(a) 125 25KA 4P MCCB. Havells/Legrand Make	2	Each			
	(b) MNX95 power contractor. L&T Make	2	Each			
18	Supplying fitting and fixing of 12 module metallic strip type switch board made of 16SWG C.R. sheet with screw fastern metallic cover including 16/6A capacity 4 numbers modular sockets (Legrand Make), 4 numbers 16A modular switches (Legrand Make), 12 Module gang plate (Legrand Make), 32A single pole B-curve MCB (Legrand Make) , LED power indicator and neutral link complete with best quality painting and necessary internal connection and provision for body earthing as required and specified by department.	15	Each			

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19	Supplying and laying of 4 x 50 sq.mm size PVC insulated and sheathed 11 kV grade aluminium stranded armoured underground cable laid in ground/partially in air including excavation of cable trench up to 75cm depth refilling, protecting brick covering , sand cushion etc complete handling surplus soil in proper place and proper size of cable lug both the end by crimping tools, cable arrow mark as specified and directed by department. (Havells/KEIPolycab Make)	180	Mtr			
20	Supplying and laying of 65 mm (2.5 inch) dia heavy duty GI pipe complete with socket (Jindal/Hindustan/Tata Make) by drilling horizontally through pucca road/drain with the help of GI pipe at a depth of 90cm or more from Ground level and pass through UG cables without damage the existing road surface complete as required and specified by deptt. (without cable)	12	Mtr			
21	Supplying including fitting & fixing of 1200 mm sweep 3 blade double ball bearing engery efficient 5 star rating ceiling fan (White colour) complete with all accessories like down road , canopy etc (without regulator) including necessary connection as specified and directed by deptt. Havells Make	4	Each			
22	Supplying including fitting & fixing of Venti Air DB 300 mm sweep A.C exhaust fan with louver in the existing hole on the wall complete with all accessories including necessary connection as specified and directed by deptt. Havells Make	2	Each			
23	Supplying fitting and fixing of socket type electronic 4step hum free ceiling fan regulator including connections etc complete as required. (Maru Neospeed/Anchor Penta Make)	11	Each			
24	Supplying including fitting & fixing of 450 mm sweep 3 blade metal body 74 deg oscillation high spped turbo wall fan including necessary connection as specified and directed by deptt. Havells Make	4	Each			
25	Making good by damage done as directed by department	LS				
Total Estimated Cost in Rs.						

Rupees :
.....only

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