

Blm

Junior Engineer (E)
NIT Silchar-10

Schedule of rates

Name of the work: Electrical wiring works including supply and installation of Ductable AC at CSE deptt at NIT Silchar

Time of completion: 60 days

ELECTRICAL		Unit	Qty.	Rate in Rs & in word	Amount in Rs
Sl no	Item description				
1	POINT WIRING (IN PVC CONDUIT) Wiring for light/fan/ call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nico / Anchor or Equivalent Make as approved by the Deptt.) in surface flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) system, complete.				
a.	Short point up to 3.00 metre. length.	Point	3		
b.	Medium point up to 6.00 metre. Length.	Point	3		
c.	Long point up to 10.00 metre. Length.	Point	12		
2	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990, with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nico / Anchor or Equivalent Make as approved by the Deptt.) in surface flat ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) system including earth continuity.				
a.	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in flat 19 mm ISI marked casing 'n' capping system.	mts	20.00		

Estimate (t/c)
NIT, Silchar - 10

3	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nico / Anchor or Equivalent Make as approved by the Deptt.) in surface flat ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) system including earth continuity.				
a	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in flat 32 mm ISI marked casing 'n' capping system.	mts	150.00		
4	Supplying with fitting fixing of 6 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	21.00		
5	Supplying including installation of socket outlet 6 Amps 3 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	3.00		
6	Supplying including fitting fixing of following front plate of suitable colour MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE as per direction of department.8-9 Module surface moulded PVC board.	Each	3.00		
7	Supplying including and fixing of following Moulded PVC boxes for MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE in surface system complete as per direction of department.8-9 module surface Moulded PVC boxes	Each	3.00		
8	Supplying with fitting and fixing sheet steel, phosphatised, powder painted Single door surface mounting MCB enclosure incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt. Schneider neo break, C&S, Havells, INDOASIAN, HPL or equivalent as approved by the Deptt.)make) 4 way single door	Each	3.00		

9	Supplying with fitting and fixing TPN 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.C Series (ABB, Schneider MG, legrand, Hager make)				
a	40A	Each	3.00		
10	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.B Series (Schneider MG, legrand, Hager make)6 to 32A	Each	3.00		
11	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure) of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.25 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens, Indo Asian make)125A	Each	1.00		
12	Supplying with fitting and fixing sheet steel, phosphatised, powder painted Single door surface mounting MCCB enclosure of the following rating MCCB fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt. Schneider neo break, C&S, Havells, INDOASIAN, HPL, V-Guard or equivalent make as approved by the Deptt.) for 125A 3P/4P MCCB	Each	1.00		
13	Installation, testing and commissioning of pre-cabled fluorescent fitting of all types, complete with all accessories and tubes etc. directly on ceiling/wall including connection as approved by the Deptt.)with 1.5 sq mm PVC insulated copper cables as required.	No.	18.00		
	NON schedule rates				
1	Supply of following size LED lights complete with all accessories as required.				
a	18/20 watt Recessed mounted LED panel light complete with all accessories.(size:1'x1' make: HPL,C&S,Crompton)	Each	18.00		

	Air Conditioning Unit									
1	<p>Supply, installation, testing & commissioning of Air cooled Ceiling Suspended Duct able Split type Air conditioners of following capacities suitable for refrigerant R22/R407C with outdoor unit consisting of hermetically sealed imported power efficient Scroll compressors, condenser coil and condenser fan and indoor unit consisting of evaporating coil, blower fan, motor & filter. Both cooling coil & condenser coil will be made up of copper-internally grooved with slit fins, anti corrosion blue fins along. The control system shall be microprocessor bases with following safety inbuilt: HP/LP cut-out, SPPR (protection against single phasing & reverse polarity) In-built thermal/temperature protection. Microprocessor controller is provided with following features: Auto switch on or off of compressors memory back up of settings Auto restart after power failure Runtime equalisation of the compressors Built-in time delay to protect compressors Fault diagnostics to facility speedy correction</p> <p>The cost of the machines will also include 20G hard drawn copper refrigerant piping properly saddles using wall spacers CPVC condensate drain piping including U Trap properly saddled, (Fire Retardant Canvas Cloth duct connection as approved by the Deptt., (Electrical interconnection between IDU & ODU using ISI marked cables in 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit properly saddled, (Nitrogen pressure testing of refrigerant circuit, (Refrigerant Gas Charging ensuring optimum performance, etc complete in all respects "make)s Approved Bluestar, Voltas, Carrier, Hitachi, Daikin, Mitsubishi.</p>									
a	5.5 Tr	Each	2.00						0.00	

12

Junior Engineer
NIT Silchar-10

2	<p>Low side work (air side related to installation of duct able/packaged type air conditioners including the following work: GI Ducting as per approved drawing. The ducting will be made as per IS655. Only Tata and Sail Galvanised plain sheets will be used,</p> <p>Duct acoustic lining inside the firmst 4-5 metres of the duct using 10mm open cell nit rile acoustic insulation sheet of Arm cell Microbar or equiv.</p> <p>Duct thermal insulation on the entire duct length using 12mm thick O class nit rile insulation (when the duct is passing through conditioned are</p> <p>Wherever the duct is passing through unconditioned space, it will be insulated with 2 layers of 12mm thick O class nit rile insulation and then finally covered with Fibreglass Mat and 2 coats of UV paint be applied as finishing.</p> <p>All air terminals will be provided with alum. Collar dampers & aluminium powder coated grills and diffusers.</p>	Tr	14.00		
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Rs.

(Rupees.....)

Signature of the agency