

Schedule of Rates

Name of the work: Supply and installation of Electrical Panel and UG Cable for lab set up of physics and other department at *new academic building at NITS*

Time of completion: 45 days

| Sl no | Item description | Unit | Qty. | Rate in Rs and in words | Amount in Rs |
|-------|---|------|--------|-------------------------|--------------|
| 1 | Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm, 3x10 sq mm, 4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908 (Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) a) 3 & 1/2 Core A2XFY, 240.00 Sq. mm. 3 & 1/2 Core armoured U.G. cable | RM | 110.00 | | |
| 2 | b) 185.00 Sq. mm. 3 & 1/2 Core armoured U.G. cable Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm, 3x10 sq mm, 4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908 (Part 1) 1988, LT armoured U.G. cable laid in pucca flooring, road crossing, drain crossing as per site requirement and partially in air to connection as approved by the Depts. the control switch, through medium duty G.I. pipe (Tata/ Nezone make or equivalent as approved by the Deptt) bend and socket including excavation and refilling the trench and making good damage done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) 240.00 Sq. mm 3 & 1/2 Core U.G. cable through 100mm dia medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.) | RM | 45.00 | | |

Junior Engineer (Electrical)
National Institute of Technology
Silchar 10

Estimate (C/c)
NIT, Silchar - 10

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Junior Engineer (Electrical)
National Institute of Technology
Silchar 10

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Estate (I/c)
NIT, Silchar - 10

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|---|---|------|------|--|--|
| | <p>Supplying including installation, commissioning of vermin and dust proof totally enclosed, Phosphatised Powder Painted cubical outdoor type double door, floor mounting compartmentalize panel board of size 0.8M X0.8MX 0.40M made of 16 SWG1.66 m thick C.R. sheet and 35mm X 35mm X 5mm size angle having 4 no legs at the bottom and C.R. sheet roofing on the top. The panel board is to be erected in 1 : 3 : 6 PCC foundation including excavation of trench and brick soling etc. complete neatly Wiring done with provision for one no 315/400A 4pole MCCB as incomer and 3 nos of out going as specified and directed by the deptt. confirming to IP 65 protection comprising of the following electrical items:</p> | Each | 1 | | |
| | 1. 40mm X 5mm (4X2) strip copper Bus-Bar 0.20M length each | | | | |
| | 2. Digital 3 Phase Voltmeter Accuracy class 0.5 - 1 no | | | | |
| | 3. Digital 3 Phase Ammeter Accuracy class 0.5 - 1 no | | | | |
| | 4. Pilot Lamp with integral ckt LED 110- 230 V (Red, Yellow, & Blue - 3 no | | | | |
| | 5. Voltmeter & Ammeter Selector Switch - 2 no | | | | |
| | 6. 2 A Slide fuse unit - 3nos | | | | |
| | (Incoming & Outgoing Switch Gear of reqd. rating will be measured and paid separately) | | | | |
| 4 | Supplying with fitting and fixing Four Pole/TP switched neutral 415V 50Hz AC23A duty double break open execution panel mounting cubical type Switch Disconnection as approved by the Deptt. for Fuse Unit(IP-20 protection) with HBC fuse of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.a)400 A | Each | 1.00 | | |
| | b) 320A | Each | 6.00 | | |
| 5 | 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 400/630A 3P/4P MCCB | Each | 3.00 | | |

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|---|--|------|-------|--|--|
| 6 | Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heavy duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt. | Each | 2.00 | | |
| 7 | Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt. | Each | 2.00 | | |
| 8 | Supplying & laying of 6 SWG G.I. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt. | RM | 60.00 | | |
| 9 | Supplying ,fabrication,Erection,Testing and commissioning of vermin and dust proof(IP 43 Protection) cubical type wall mounting busbar panel board of size600mmX700mmX160mm made of 18 SWG sheet with a provision for 400 Amps 3 phase neutral 4 way Cu busbar complete as specified and directed by the deptt.(Havells or equivalent) | Each | 3 | | |

Rs.

(Rupees only)

Signature of the agency

[Signature]

Junior Engineer (Elect)

National Institute of Technology

6/10/20

[Signature]
Estimate (C/c)
MT, Slichter - 10