

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 29 /IWD/ED/97****SCHEDULE OF QUANTITY**

Name of work: Providing DG power backup to Cryo-storage facilities at old core lab E-203.

| Name of the Contractor | | | | | |
|------------------------|--|-------|------|---------------------------|--------|
| S. No | Description of Items | Qty | Unit | Rate in Figures in Rupees | Amount |
| 1 | Supplying & drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as reqd. | | | | |
| a) | 3 x 4 sq. mm | 20.00 | Mtr. | | |
| 2 | 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) | | | | |
| a) | 8 way , Double door | 1.00 | Nos. | | |
| 3 | 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.) | | | | |
| a) | 4-way Cat no. 607750 Legrand or equivalent | 1.00 | Nos. | | |
| 4 | Supplying and fixing 5 amps to 32 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. | | | | |
| a | Single pole | 14.00 | No's | | |
| b | Triple pole | 2.00 | Nos. | | |

| S. No | Description of Items | Qty | Unit | Rate in Figures in Rupees | Amount |
|-------|--|--------|------|---------------------------|--------|
| 5 | Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, 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. | 2.00 | Mtr. | | |
| 6 | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size 35 sqmm to 95 sqmm including excavation, sand cushioning, protective covering and refilling the trench etc as required. | | | | |
| a | Laying direct in ground | 160.00 | Mtr. | | |
| b | Laying direct in pipe | 25.00 | Mtr. | | |
| c | Laying direct in open duct | 15.00 | Mtr. | | |
| d | In surface | 25.00 | Mtr. | | |
| 7 | Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed, XLPE aluminium conductor cable of 1.1kV grade as reqd. | | | | |
| a | 3½ X 50 sq. mm (35mm) | 2.00 | Set | | |
| 8 | Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required | | | | |
| a | 50 mm dia | 30.00 | Mtr. | | |
| 9 | Supplying of one No. PVC insulated & PVC sheathed, XLPE power cables (heavy duty) aluminium conductor, steel armoured cable of size 3.5 x 50sqmm, 1.1kV grade as per IS:7098 (Part-1) as reqd complete in following manners. | 225.00 | Mtr. | | |
| 10 | Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. | | | | |
| a | 4 X 16 sqmm | 20.00 | Mtr. | | |

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|-------|--|-------|------|---------------------------|--------|
| 11 | S/F, copper cable lug suitable for 16sqmm size of conductor. | 16.00 | Nos | | |
| 12 | S&F connecting and commissioning MCCB unit of following ratings 100A, 4 pole 415V, 18KA with metal enclosure magnetic release . I/c providing connecting copper/Al. Strip between bus bar and MCCB tapping etc. as reqd | 1.00 | Nos. | | |
| 13 | Supplying and fixing 40amp to 63amp 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. | | | | |
| a | Double pole | 3.00 | No's | | |
| b | Four pole | 1.00 | No's | | |
| | Total Rs. | | | | |