

INDIAN INSTITUTE OF TECHNOLOGY KANPUR



Tender Notice No. 22/Elect/2020

SCHEDULE OF QUANTITY

Name of Work: Replacement of old DG LT panel of 3x320 KVA DG sets at DG House No. 4.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal, coke and salt as required.	4.00	each		
2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. (but without charcoal/ coke and salt) as required	6.00	each		
3	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	60.00	Mtr.		
4	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	100.00	Mtr.		
5	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 70 sq. mm (38mm)	2.00	Set		
b	3½ X 95 sq. mm (45mm)	3.00	Set		
c	3-1/2x400 sqmm(82mm)	10.00	Set		
7	Providing 15 mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.	20.00	Sq.m		
6	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				

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a	80 mm dia	30.00	Mtr.		
b	100 mm dia	30.00	Mtr.		
8	Supply, Installation, Testing & Commissioning of 2mm thick CRCA sheet cubical type floor mounted switchgear DG LT panel with aluminium bus bar of 1200Amp capacity in all four bus bars, 3 Phase earth fault and over current microprocessor based relay at incomers & bus coupler along with trip circuit supervision relay as required. digital ampere meter, digital voltmeter 0-600V-3nos, along with selector switches, indicating lamp R,Y,B -4 sets 3 Phase 4 wire electronic KWH meter for all the switches, ACB 100Amp, specification (microprocessor release) 4 pole 3phase 415V draw out, motorized 3 nos as DG incomers for (3x320KVA DG sets) DG-1, DG-2, DG-3 and 2 nos 4 pole 1000Amp ACB as buscoupler between DG-1 & DG-2 and DG-2 & DG-3 as directed by the Engineer Incharge Incoming: 3 nos 1000Amp 4 pole ACB for incoming of 3x320KVA Dg sets DG-1, DG-2, DG-3 and having 2 nos	1.00	Nos		
9	Lifting removing cable from trench, clamps, making role & depositing the same in store I/c cartage.				
a	upto 35 sqmm	10.00	Mtr.		
b	35 to 95sq.mm	10.94	Mtr.		
c	95 to 185sq.mm	10.00	Mtr.		
d	185 to 400sq.mm	10.00	Mtr.		
10	Dismantling and refixing brass compression type gland up to 400 sq. mm. cable	40.00	Nos.		
11	Supplying and laying rubber mat of size 200cm x 100 cm x 1.2 cm thick as required.	3.00	Nos		
12	Supplying and laying chequered plate in cut pcs of 6mm thick with handle cutting, welding as required complete.	7.00	Nos		
13	S & F following size angle iron in required shape and size i/c cutting, welding, painting etc. as reqd.	50.00	Kg		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
14	Supply and laying of one no. PVC insulated and PVC sheathed XLPE copper conductor steel armoured control cable of 1.1 kV grade of following size and core.				
a	Laying in open duct	60.00	Mtr.		
	Total Rs.				