

REVISED BOQ

Schedule of Work

Name of Work:- Modification of Main Distribution Panels & DG set panels housed in the Substation and nearby area at IACS, Jadavpur.

Item no.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
1	Supplying, Installing, Testing & Commissioning of 400A 4-pole, 36KA, thermal magnetic release type MCCB (Make: L&T, d-sine range, Model: DN3) in the exting cubicle of the MV panel i/c making connections etc. complete as required. This job includes disconnection & removal of the existing MCCB of 250A rating from the cubicle and installation of the above 400A MCCB there towards replacement of the existing one also.	1	Job.		
2	Supplying, Installing, Testing & Commissioning of Bus-Coupler panel made of 1.6mm thick CRCA sheet steel duly painted with approved shade with powder coating method consisting of 630A 4-pole, 50KA, thermal magnetic release type MCCB (Make: L&T, d-sine range, Model: DN3), indicating lamps (4nos.), CT operated digital ammometer (L&T make), digital volt meter (L&T make), selector switches for ammometer & volt meter (kappa or similar superior make), providing CT of ratio 800:5 i/c making connections of MCCB with main Bus-Bars etc. complete as required.	1	Job.		
3	Providing Mechanical Interlocking arrangement using Key Locks for interlocking 2nos. of 400A, 4-pole, MCCB (incomer switches for Utility & DG set power) i.e. 1 type of lock for both the MCCBs (Make of MCCB: L&T, d-sine range, Model: DN3) installed in cubicle type DG set Panel side by side of following rating of DG set etc. complete as required.				
	(a) For 250KVA DG Set control panel	1	set		
	(b) For 200KVA DG Set control panel	1	set		
4	Providing Electrical Interlocking arrangement using electromagnetic contactors for the purpose of interlocking 2nos. of 400A, 4-pole, MCCB (incomer switches for Utility & DG set power) already installed in cubicle type DG set Panel of following rating including providing & fixing of all necessary materials for control wiring etc. as required to complete the job in all respects.				
	(a) For 250KVA DG Set control panel	1	set		
	(b) For 200KVA DG Set control panel	1	set		

Item no.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
5	Supplying, Installing, Testing & Commissioning of 400A 4-pole, 36KA, thermal magnetic release type MCCB (Make: L&T, d-sine range, Model: DN3) in the existing 250KVA DG set control panel by replacing the existing 400A 4-pole electromagnetic contactor i/c making connections of incoming & outgoing cables to & from MCCBs including drilling holes on bus-bars to fix the MCCB and other minor modifications as will be needed as per site requirements etc. complete as required.	2	Jobs		
6	Supplying & Laying of single core XLPE insulated unarmoured stranded flexible copper conductor cable of size 150 sq.mm. as per IS: 7098, Part-I, 1988 of 1100 Volt grade to provide incoming & outgoing cable connections for MCCBs of different rating in order to safely carry out the rated current by the MCCBs etc. complete as required.	30	Mtrs		
7	Laying and fixing of one no. PVC insulated and PVC sheath/XLPE armoured aluminium conductor power cable of 1.1 KV grade of size 240Sq.mm by using MS angle bracket of suitable size from roof/wall surface etc.complete as required. This job includes supply of all accessories, sundry materials, MS angle bracket including painting the same with approved shade of synthetic enamel paint & primer also. (Note:The above cable will be supplied by IACS.)	10	meter		
8	Supplying and making end terminations with brass compression gland and Aluminium lugs for end termination of following sizes PVC insulated and PVC sheath/XLPE armoured Aluminium conductor power cable of 1.1 KV grade as required				
	(a) 3.5core 240 Sq.mm	2	Sets		
	(b) 3.5core 400 Sq.mm	2	Sets		
9	Supplying and making end terminations with copper lugs for end termination of single core 150 Sq.mm PVC insulated and PVC sheath/XLPE copper conductor power cable of 1.1 KV grade etc.complete as required	48	Nos.		

Item no.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
10	Earthing with GI earth pipe 4.5m long, 40mm dia including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	2	Nos.		
11	Supplying & Laying 25mm x 5mm GI Strip at 0.50m below ground as strip earth electrode i/c connection / termination with nuts, bolts, spring washer etc. as required.	22	Mtrs.		
12	Providing and fixing 25mm X 5mm GI strip on surface or in recess for connection etc.as required.	35	Mtrs.		
13	Providing & Fixing 4mm dia copper wire on surface or in recess for loop earthing along with exisiting surface / recessed conduit / submain wiring / cable as required.	20	Mtrs.		
14	Providing & Fixing earth bus of 50mm x 5mm copper strip on surface for connection etc. as required.	0.6	Mtrs.		
15	Supplying, Installing, Testing & Commissioning of 400A, 4-way, Havells make Bus-Bar chamber as per CAT no. IHBC 040004 (optima series) on wall surface etc. complete as required.	2	Nos.		
		Total (Rs)			
NOTE:The quoted rate shall be inclusive of all taxes & duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.					

Signature of the Bidder with seal