

STATE BANK OF INDIA					
ADMINISTRATIVE OFFICE, DHANBAD					
BILL OF QUANTITY OF ELECTRICAL WORKS OF E-LOBBY AT HAZARIBAGH BRANCH UNDER RBO HAZARIBAGH					
Sl No.	Item Description	Unit	Qty.	Rate(Rs)	Amount(Rs)
1	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 4.0 core 50 sqmm cable with making proper trench/support as per IS specification and complete with all respect as per the instruction of E-I-C.	Mtr.	50		
2	Supply & Installation of 100Amp 4 Pole Switch Fuse Unit with enclosure near Meter	No.	1		
3	<p><b>(A) MAIN INCOMING SOURCE PANEL (MISP) :</b> SITC of main incoming (MIP) Panel suitable for wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof (IP 42), dead front, cubicle type, 2 mm thick sheet steel enclosure use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartmen. The Panel shall be complete with switches as per site requirement, inter connection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers etc. as directed by E-I-C. The cubicle should be painted with two coats of light grey synthetic enamel paint over two coats of zinc chromate primer. The complete fabrication, construction shall be done as per the site condition and conforming to the relevant IS. Name plate of Panels Danger Board, incoming and outgoing feeders with Ampere rating of switches are to be fixed up on front door above or below the respective switches. Approval of Manufacturer's drawings from EIC. The Panel consists of the following</p> <p><b>INCOMING :</b> 1 No. 415V, 100A 4P MCCB (35 KA) ; Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power; 3 Nos.: LED Phase indicating lamps; 3 Nos.: Suitable CTS; 2 Set TPN Tinned Copper Busbar 200 Amp. for phases and neutral; G.I. EARTH BUSBAR 25mm x 3mm covering the total length of panel.</p> <p><b>OUTGOING :</b> (i) 1 Nos. 63 A (25KA) 4P MCCB for UPS supply (ii) 9 Nos. 32A 10 KA DP MCB for ACs/Switch Board/RPDB supply etc. (iii) 3 nos. AC Timer</p>	No.	1		
4	<p><b>(A) UPS INCOMING DB:</b> Supply of all required materials and fixing of input UPS box (Company made Double Door) having provision of the following arrangement complete with all respects per the direction of engineer in charge.</p> <p><b>Incoming:</b> 1 No. 63A (10KA) TPN MCB <b>Outgoing:</b> 4 Nos. 63A (10KA) DP MCB</p>	No.	1		
	<p><b>(B) UPS OUTGOING DB:</b> Supply of all required materials and fixing of output UPS box (Company made Double Door) having provision of the following arrangement complete with all respects per the direction of engineer in charge.</p> <p><b>Incoming:</b> 1 no. 63 A DP MCB <b>Outgoing:</b> 3 No. 40A (10KA) DP MCB</p>	No.	2		

5	Supply & fixing of 63A double pole Changeover with enclosure (side handle) complete	No.	2		
6	<b>COMPUTER DB:</b> Supply and installation of following metallic double door MCB Distribution Board with MCB having breaking capacity of 10 KA (minimum) complete with busbar, interconnection, painting, mounted on flat iron frame on wall/flushed with finished wall by chase cutting, mending good to original finish painting etc. as required. Name plate & number of DBs are to be fixed up on front door of DBs for their identification.				
a	<b>CDB :</b> Consumer unit SPN MCB DB (Double Door) complete with busbar and the following MCBs. <b>INCOMING :</b> 1 No. 415V 32A 10KA DP MCB <b>OUTGOING :</b> 10 Nos. 240V 10A 10 KA SP MCB	Nos.	2		
7	<b>SUBMAIN WIRING</b> Supply & laying of submain wiring with following sizes 1100 V grade, single core, PVC insulated multi stranded copper conductor wire (IS:694) in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect.				
a	With 4 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper wire from Main Panel to UPS Incoming DB and LDB.	Mtr.	20		
b	With 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper wire from UPS Outgoing to UPS O/G DB/CDB/LDB to RPDB.	Mtr.	30		
c	With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper wire from ACDB to AC power point.	Mtr.	50		
8	<b>POWER SOCKET OUTLET</b> cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following <b>2 Nos. 16/20A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch</b> with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet.	Nos.	10		
9	Supply & fixing of Company made approved make modular type AC socket & Top with 25A SP MCB.	Nos.	6		
10	<b>Chemical Earthing:</b> Supply of material and installation of earth electrode made out of 50mm dia class B G.I. pipe in pipe of 3 metre long with arrangements for fitting / termination of G.I. flat with G.I. nut bolts and washers including cost of backfill compound and good quality soil, water purging arrangements, brick masonry enclosure on top with removable CI over complete with labour for excavation of pit conforming to IS: 3043/1987.	No.	2		

11	Supply of materials, laying under ground/walls/floor, making end termination and testing of <b>2x6 mm multistrand copper wire to be inside PVC</b> . Conduit cables laid from <b>earth pit to UPS Outgoing DB</b> and complete.	Mtr.	20		
12	Supply of materials, laying under ground/walls/floor making end termination and testing of <b>G.I. flat (25x3mm) laid from earth pit to Main panel</b> as required.	Mtr.	20		
13	Supply & Fixing of <b>Cu Earth Strip (25 x 3 x 180 mm)</b> with insulators at UPS room	No.	1		
14	<b>POINT WIRING:</b> Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for earth PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked) by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials such as modular type 6A switch for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board, 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm. + 1 no. single core 1.5 sq.mm. PVC insulated stranded copper conductor cable (IS:694) through suitable size M.S. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting				
A	1 Light control by 1 switch (this also include UPS light point)	Nos.	20		
B	2/3 Light control by 1 switch	Nos.	10		
C	Wall Fan point wiring with <b>3 Pin</b> socket	No.	1		
D	Exhaust fan point	Nos.	1		
E	3 pin 6/10A modular socket with switch in each board	Nos.	1		
15	Supply & Fixing of <b>36W-2'x2' LED Panel light</b> recessed mounted of Phillips / Wipro / CG / SSKA / HAVELLS make of lumens >3000 complete with all accessories.	Nos.	8		
16	Supply & Fixing of <b>15W LED Round Downlighter</b> recessed mounted of Phillips / Wipro / CG / SSKA / HAVELLS make complete with all accessories.	Nos.	10		
17	Supply & Fixing of <b>6W LED Round Downlighter</b> recessed mounted of Phillips / Wipro / CG / SSKA / HAVELLS make complete with all accessories.	Nos.	20		
18	Supply & fixing of <b>18/22W LED T5 Batten fitting</b> of Phillips / Wipro / CG / HAVELLS / SSKA complete with all respect.	Nos.	2		
19	Supply & Fixing of <b>45W LED Street Light</b> complete with mounting pole of Phillips / Wipro / CG / HAVELLS / SSKA make complete with all accessories.	Nos.	3		
20	Supply & fixing of <b>Heavy duty 9" Exhaust fan with cutting the wall for mounting</b> complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	1		

21	Supply and fixing of information outlet box suitable for <b>1 nos. RJ 45</b> terminals including mounting box (PVC) & top cover, to be fixed a concealed manner in partition by necessary bolts & nuts including Supply and laying of <b>E-CAT 6 UTP cable</b> for the Data Circuit through the PVC conduit, Rate to include for termination on both end as directed at site. (MAKE- D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	16		
28	Supply of 5 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	16		
		<b>Total</b>			
	<b># GST EXTRA AS APPLICABLE</b>				