

STATE BANK OF INDIA					
ADMINISTRATIVE OFFICE, DHANBAD					
BILL OF QUANTITY OF ELECTRICAL WORKS OF GOL BUILDING BRANCH UNDER RBO DHANBAD					
SI No.	Item Description	Unit	Qty.	Rate(Rs)	Amount(Rs)
1	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 3.5 core 70 sqmm cable with making proper trench/support as per IS specification and complete with all respect From Transformer/Pole to Main Panel.	Mtr.	60		
2	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 4.0 core 35 sqmm cable with making proper trench/support as per IS specification and complete with all respect From Main Panel to ACDBs.	Mtr.	25		
3	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 4.0 core 25 sqmm cable with making proper trench/support as per IS specification and complete with all respect From Main Panel to UPS Incoming DB.	Mtr.	40		
4	(A) MAIN INCOMING SOURCE PANEL (MISP) : 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				
	INCOMING : 1 No. 415V, 160A 4P MCCB (35 KA) ; 1 No. , 160A 4 Pole Change-over - 1 No. ; 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.				
	OUTGOING : Termination I: (i) 2 Nos. 63 A (25KA) 4P MCCB for UPS and ATM (ii) 3 Nos. 32A 10 KA DP MCB for BM AC, Gate light DB & Pantery Fridge Supply (Directly connected the outgoing of C.O.) Termination II: (i) 1 Nos. 63A (25KA) 4P MCCB for ACDBs Supply (ii) 2 Nos. 63A 10 KA TPN MCB for LDBs (iii) 4 Nos. 32A 10KA DP MCB for RPDB Supply etc.	No.	1		

5	<p>(A) UPS INCOMING DB: 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>Incoming: 1 No. 63A (10KA) TPN MCB Outgoing: 2 Nos. 63A (10KA) DP MCB</p>	No.	1		
	<p>(B) UPS OUTGOING DB: 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>Incoming: 1 no. 63 A DP MCB Outgoing: 3 No. 40A (10KA) DP MCB</p>	No.	1		
6	Supply & fixing of 63A double pole Changeover with enclosure (side handle) complete	No.	1		
7	<p>ACDB / RAW POWER DB/ LIGHT DB / COMPUTER DB: 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.</p>				
a	<p>ACDB : Consumer unit TPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 63A 10KA TPN MCB OUTGOING : 12 Nos. 240V 32A 10 KA SP MCB</p>	No.	1		
b	<p>LDB : Consumer unit TPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A 10KA TPN MCB OUTGOING : 12 Nos. 240V 16A 10 KA SP MCB</p>	No.	2		
c	<p>CDB : Consumer unit 16 Way SPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 32A 10KA DP MCB OUTGOING : 10 Nos. 240V 10A 10 KA SP MCB</p>	Nos.	1		
d	<p>RPDB: Consumer unit 12 Way SPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 32A 10KA DP MCB OUTGOING : 6 Nos. 240V 10A 10 KA SP MCB</p>	No.	1		
e	<p>Security Equipment DB : Consumer unit SPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 32A 10KA DP MCB OUTGOING : 6 Nos. 240V 16A 10 KA SP MCB</p>	No.	1		
e	<p>GATE LIGHT DB: Consumer unit SPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 32A 10KA DP MCB OUTGOING : 4 Nos. 240V 10A 10 KA SP MCB</p>	No.	1		

8	SUBMAIN WIRING 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 LDB.	Mtr.	50		
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/Security DB/CDB and Main Panel to RPDB.	Mtr.	100		
c	With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper wire from ACDB to AC power point.	Mtr.	70		
9	(A) COMPUTER SOCKET OUTLET 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 5 Nos. 6/10A 5 pin modular type approved sockets 1 No. 16A modular type common controlling switch with indicator 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 CDB to Computer point. (To be installed in Work Stations)	Nos.	7		
	(B) COMPUTER SOCKET OUTLET 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 3 Nos. 6/10A 5 pin modular type approved sockets 1 No. 16A modular type common controlling switch with indicator 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 CDB to Computer point. (To be installed For Switch, CCTV, Fire Alarm, TV supply etc.)	Nos.	6		
	(C) RAW POWER SOCKET OUTLET 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 2 Nos. 16/20A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch 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. (To be installed at SWCs & Canteen)	Nos.	6		
10	Supply & fixing of Company made approved make modular type AC socket & Top with 25A SP MCB.	Nos.	6		

11	Supply & fixing of Company made approved make modular type AC socket & Top with 16A SP MCB to be installed at Pantry.	Nos.	1		
12	Supply & Installation of 160Amp 4 Pole MCCB with enclosure near Main Gate for controlling line.	No.	1		
13	Chemical Earthing: 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 puring arrangements, brick masonry enclosure on top with removable CI over complete with labour for excavation of pit conforming to IS: 3043/1987.	No.	2		
14	Supply of materials, laying under ground/walls/floor, making end termination and testing of 2x6 mm multistrand copper wire to be inside PVC pipe from earth pit to UPS Outgoing DB and complete.	Mtr.	40		
15	Supply of materials, laying under ground/walls/floor making end termination and testing of (25 x 3) mm G.I. flat from earth pit to Main panel as required.	Mtr.	30		
16	Supply & Fixing of Cu Earth Strip (25 x 3 x 180 mm) with insulators at UPS room	No.	1		
17	POINT WIRING: 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.	60		
B	2/3 Light control by 1 switch	Nos.	15		
C	Wall Fan point wiring with 3 Pin socket	No.	15		
D	Exhaust fan point	Nos.	5		
D	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room, Locker Room, Record Room and Stationary Room complete with wiring & Suitable Top to be provided for supply.	Nos.	3		
G	3 pin 6/10A modular socket with switch in each board	Nos.	5		
18	Supply & installation of cordless Call Bell	No.	1		

19	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted of Phillips / Wipro / CG / HPL / Syska / Havells make of lumens >3000 complete with all accessories.	Nos.	20		
20	Supply & Fixing of 15W LED Round Downlighter recessed mounted of Phillips / Wipro / CG / HPL / Syska / Havells make complete with all accessories.	Nos.	10		
21	Supply & Fixing of 6W LED Round Downlighter recessed mounted of Phillips / Wipro / CG / HPL / Syska / Havells make complete with all accessories.	Nos.	20		
22	Supply & Fixing of LED Strip light (Blue Colour) of Phillips / Wipro / CG / HPL / Syska / Havells make complete with all accessories.	Mtr.	50		
23	Supply & fixing of 18/22W LED T5 Batten fitting of Phillips / Wipro / CG / HPL / Syska / Havells complete with all respect.	Nos.	15		
24	Supply & fixing of 9W LED Bulb of Phillips / Wipro / CG / HPL / Syska / Havells complete with all respect.	Nos.	5		
25	Supply & Fixing of 35W LED Street Light complete with mounting pole of Phillips / Wipro / CG / HPL / Mescab / Century / Halonix make complete with all accessories.	Nos.	2		
26	Supply & fixing of 400MM METAL BLADE Wall Fan with 3 Pin Top complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	15		
27	Supply & fixing of 230MM Exhaust fan with cutting the wall for mounting complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	5		
28	Supply and fixing of information outlet box suitable for 1 nos. RJ 45 terminals including mounting box (PVC) & top cover, to be fixed a concealed manner in partition by necessary bolts & nuts including Supply and laying of E-CAT 6 UTP cable 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.	15		
29	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	15		
30	Supply & Installation of 9U Modem Rack consisting of power supply, ventilation fan with suitable mounting screws of VALRACK / LEGRAND / D-LINK make. (IF REQUIRED)	Nos.	1		
31	Charges for making and submitting 1 set (2 nos.) of computerised neat & clean Electrical Single Line drawing showing Main Panel, DBs etc.	Set	1		
32	Charges for making and submitting 1 set (2 nos.) of computerised neat & clean LAN cabling drawing showing Modem Rack, I/O box location etc.	Set	1		

ATM LOBBY					
1	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 4 core 25 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.	20		
2	Supply & Installation of 63Amp 4 Pole Switch Fuse Unit with enclosure inside ATM Room.	No.	1		
3	ATM LOBBY MAIN DB : Consumer unit TPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 63A 10KA TPN MCB OUTGOING : 4 Nos. 240V 32A 10 KA DP MCB 4 Nos. 240V 16A SP MCB	No.	1		
4	CDB : Consumer unit SPN MCB DB (Double Door) complete with busbar and the following MCBs. INCOMING : 1 No. 415V 32A 10KA DP MCB OUTGOING : 6 Nos. 240V 10A 10 KA SP MCB	No.	1		
5	SUBMAIN WIRING 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 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper wire from Main DB to UPS Outgoing UPS O-G DB/CDB .	Mtr.	20		
b	With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper wire from Main DB to AC power point .	Mtr.	20		
6	(A) UPS POWER SOCKET OUTLET 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 5 Nos. 6/16A 5 pin modular type International sockets. 2 No. 16A modular type controlling switch 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. (For Security Equipments)	Nos.	1		
	(B) UPS POWER SOCKET OUTLET 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 2 Nos. 6/16A 5 pin modular type International sockets. 2 No. 16A modular type controlling switch 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.	No.	4		
7	Supply & fixing of Company made approved modular type AC socket & Top with 32A SP MCB. (1 nos. for UPS Incoming)	No.	3		

8	Chemical Earthing: 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.	1		
9	Supply of materials, laying under ground/walls/floor, making end termination and testing of 2x6 mm multistrand copper wire to be inside PVC . Conduit cables laid from earth pit to Earth Strip and complete.	Mtr.	20		
10	Supply & Fixing of Cu Earth Strip (25 x 3 x 180 mm) with insulators	No.	1		
11	POINT WIRING: 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	1/2/3 Light control by 1 switch	Nos.	8		
b	Glow sign board light	Nos.	1		
c	UPS Light point wiring	Nos.	1		
d	3 pin 6/10A modular socket with switch in each switch board	Nos.	1		
12	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted of Phillips / Wipro / CG / HPL / Havells / Syska make of lumens >3000 complete with all accessories.	Nos.	2		
13	Supply & Fixing of 15W LED Downlighter recessed mounted of Phillips / Wipro / CG / HPL / Havells / Ssyska make complete with all accessories.	Nos.	4		
14	Supply & Fixing of 6W LED Round Downlighter recessed mounted of Phillips / Wipro / CG / HPL / Havells / Syska make complete with all accessories.	Nos.	4		
15	Supply & fixing of 18W LED T5 Batten fitting Phillips / Wipro / CG / HPL / Havells / Syska complete with all respect.	Nos.	1		

16	Supply and fixing of information outlet box suitable for 1 nos. RJ 45 terminals including mounting box (PVC) & top cover, to be fixed a concealed manner in partition by necessary bolts & nuts with Supply and laying of E-CAT 6 UTP cable 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.	4		
17	Supply of 5 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	4		
		Total			
# GST EXTRA AS APPLICABLE					