STATE BANK OF INDIA						
BILL OF QUANTITY OF ELECTRICAL WORKS OF NAWADIH BRANCH UNDER RBO BOKARO						
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 50 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 25 sqmm cable with					
	making proper trench/support as per IS specification and complete					
	with all respect From Main Panel to UPS Incoming DB and ACDB.					
		Mtr.	50			
3	(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, 125A 4P MCCB (35 KA); 1 No., 125A 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 Gate light DB & Pantery Fridge					
	Supply etc. (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) 3 Nos. 32A 10KA DP MCB					
	for BM AC, RPDB Supply etc.	No.	1			
4	(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.					
	Incoming: 1 No. 63A (10KA) TPN MCB					
	Outgoing: 2 Nos. 40A (10KA) DP MCB	No.	1			

	(D) LIDS OLITSOING DD. Completed all required metarials and fiving			
	(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.			
	Incoming: 1 no. 63 A DP MCB			
	<u>Outgoing:</u> 3 No. 40A (10KA) DP MCB	No.	1	
5	Supply & fixing of 63A double pole Changeover with enclosure			
	(side handle) complete	No.	1	
6	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.			
а	ACDB: Consumer unit TPN MCB DB (Double Door) complete with			
	busbar and the following MCBs.			
	INCOMING: 1 No. 415V 63A 10KA TPN MCB			
	<b>OUTGOING</b> : 12 Nos. 240V 32A 10 KA SP MCB	No.	1	
b	LDB: Consumer unit TPN MCB DB (Double Door) complete with			
	busbar and the following MCBs.			
	INCOMING: 1 No. 415V 63A 10KA TPN MCB			
	<b>OUTGOING</b> : 12 Nos. 240V 16A 10 KA SP MCB	No.	1	
С	CDB: Consumer unit SPN MCB DB (Double Door) complete with			
	busbar and the following MCBs.			
	INCOMING: 1 No. 415V 32A 10KA DP MCB			
	<b>OUTGOING</b> : 10 Nos. 240V 10A 10 KA SP MCB	Nos.	1	
d	RPDB: Consumer unit SPN MCB DB (Double Door) complete with			
	busbar and the following MCBs.			
	INCOMING: 1 No. 415V 32A 10KA DP MCB			
	<b>OUTGOING :</b> 6 Nos. 240V 10A 10 KA SP MCB	No.	1	
е	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			
	<b>OUTGOING</b> : 6 Nos. 240V 16A 10 KA SP MCB	No.	1	
е	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			
	<b>OUTGOING</b> : 4 Nos. 240V 10A 10 KA SP MCB	No.	1	
7	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.			

12	Changian Fauthing County of material and installation of south			
12	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 masonary			
	enclosure on top with removable CI over complete with labour for			
	excavation of pit conforming to IS: 3043/1987.	No.	2	
13	Supply of materials, laying under ground/walls/floor, making end			
	termination and testing of 1x10 sqmm multistrand copper wire to			
	be inside PVC pipe from earth pit to UPS Outgoing DB and			
	complete.	Mtr.	40	
14	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.	40	
15	Supply & Fixing of Cu Earth Strip (25 x 3 x 180 mm) with insulators			
	at UPS room	No.	1	
16	<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			
Α	1/2/3 Light control by 1 switch (this also include UPS light point)	Nos.	50	
В	Wall Fan point wiring with <b>3 Pin</b> socket	No.	10	
С	Exhaust fan point	Nos.	6	
	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.	2	
Е	3 pin 6/10A modular socket with switch in each board	Nos.	5	
17	Supply & installation of cordless Call Bell	No.	1	
18	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.	18	
19	Supply & Fixing of 15W LED Round Downlighter recessed			
	mounted of Phillips / Wipro / CG / HPL / Syska / Havells make			
	complete with all accessories.	Nos.	10	
	complete with an accessories.	1403.	10	

20	Cumply & Fiving of CW LED Downd Downlighton recossed mounted			
20	Supply & Fixing of <b>6W LED Round Downlighter</b> recessed mounted			
	of Phillips / Wipro / CG / HPL / Syska / Havells make complete		24	
21	with all accessories.  Supply & Fixing of LED Strip light (Blue Colour) of Phillips / Wipro	Nos.	24	
21	/ CG / HPL / Syska / Havells make complete with all accessories.			
	/ CG / HPL / Syska / Havens make complete with all accessories.	Mtr.	50	
22	Supply & fixing of <b>18/22W LED T5 Batten fitting</b> of Phillips / Wipro	iviti.	30	
22	/ CG / HPL / Syska / Havells complete with all respect.	Niss	10	
22	Supply & fixing of <b>9W LED Bulb</b> of Phillips / Wipro / CG / HPL /	Nos.	10	
23			_	
	Syska / Havells complete with all respect.	Nos.	5	
24	Supply & Fixing of <b>35W LED Street Light</b> complete with mounting			
	pole of Phillips / Wipro / CG / HPL / Mescab / Century / Halonix			
	make complete with all accessories.	Nos.	2	
25	Supply & fixing of <b>450MM METAL BLADE Wall Fan</b> with <b>3 Pin Top</b>			
	complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)			
		Nos.	4	
26	Supply & fixing of 400MM METAL BLADE Wall Fan with 3 Pin Top			
	complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)		_	
		Nos.	6	
27	Supply & fixing of 4 Blade Heavy Duty 230MM Exhaust fan with			
	cutting the wall for mounting complete with all respect to be			
	installed in UPS Room. (Make: Polar, Orient, CG, Havells, Usha,)	No.	1	
28	Supply & fixing of 230MM Exhaust fan with cutting the wall for			
	mounting complete with all respect. (Make: Polar, Orient, CG,			
	Havells, Usha,)	Nos.	5	
29	Supply and fixing of information outlet box suitable for 1 nos. RJ			
	<b>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.	12	
30	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD			
	(Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	12	
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.	25	

2	Supply & Installation of 63Amp 4 Pole Switch Fuse Unit with			
	enclosure inside ATM Room (L&T Make).	No.	1	
3	ATM LOBBY MAIN DB : Consumer unit TPN MCB DB (Double Door)	NO.	<b>T</b>	
	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	INO.		
-	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	.vici.	20	
	wire from <b>Main DB to AC power point</b> .	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 <b>5 Nos. 6/16A 5 pin</b>			
	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.	2	
7	Supply & fixing of Company made approved modular type AC			
	socket & Top with 25A SP MCB. (for UPS Incoming)	No.	1	
8	Supply & fixing of Company made approved Metal Clad type AC			
	socket & Top with 25A SP MCB.			
	(To be installed inside UPS room for Acs Stablisers)	Nos.	2	
9	Supply & fixing of Company made approved Modular type 16A	. 103.		
-	Socket with box & Top only			
	(To be installed in ATM room for AC supply).	Nos.	2	
	l,	1103.		

10	Supply & Installation of Company made AC Timer with suitable			
	enclosure for switchover of AC in periodic intervals.			
	(To be installed in ATM room for AC).	No.	1	
11	Chemical Earthing: Supply of material and installation of earth	110.	_	
111				
	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 masonary			
	enclosure on top with removable CI over complete with labour for			
	excavation of pit conforming to IS: 3043/1987.	No.	1	
12	Supply of materials, laying under ground/walls/floor, making end			
12				
	termination and testing of 1x10 sqmm multistrand copper wire to			
	be inside PVC. Conduit cables laid from earth pit to Earth Strip			
	and complete.	Mtr.	30	
13	Supply & Fixing of <b>Cu Earth Strip (25 x 3 x 180 mm)</b> with insulators			
		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			
а	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	
15	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	
16	Supply & Fixing of 15W LED Downlighter recessed mounted of			
	Phillips / Wipro / CG / HPL / Havells / Ssyska make complete with			
	all accessories.	Nos.	4	
17	Supply & Fixing of <b>6W LED Round Downlighter</b> recessed mounted		-	
-′	of Phillips / Wipro / CG / HPL / Havells / Syska make complete			
			1	
10	with all accessories.	Nos.	4	
18	Supply & fixing of <b>18W LED T5 Batten fitting</b> Phillips / Wipro / CG /			
	HPL / Havells / Syska complete with all respect.	Nos.	1	

	# GST EXTRA AS APPLICABLE		Tota		
3	Supply & installation of Extra drain pipe of good quality for ACs if required.	MTR.	40	_	
2	Supply & installation of Extra copper pipe with insulation for ACs if required.	MTR.	40		
1	Air Conditioners: Supply and installation of Split Type 1.5 tonne capacity Air-Conditioners (5 Star, Inverter) of (Voltas / Blue star / Hitachi / Carrier / Daikin / Ogeneral / LG / Panasonic / Godrej / Lloyd including 4 KVA Automatic Stabiliser of Vguard/Sen & Pandit/Microtek and fixing of outdoor units with steel stand all accessories complete in all respect. (6 nos. for Branch and 2 nos. for ATM)	NOS.	8		
AIR C	ONDITIONING WORK				
20	Supply of <b>5 mtr. Long E-CAT 6 PATCH CHORD</b> (Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	Nos.	2		
	DIGISOL)	Nos.	2		
	through the PVC conduit, Rate to include for termination on both end as directed at site. (MAKE- D-LINK, AMP, HCL, Legrand,				
	a concealed manner in partition by necessary bolts & nuts with Supply and laying of E-CAT 6 UTP cable for the Data Circuit				
	45 terminals including mounting box (PVC) & top cover, to be fixed				
19	Supply and fixing of information outlet box suitable for 1 nos. RJ				