

STATE BANK OF INDIA
SCHEDULE OF WORKS: ELECTRICAL AND AIR CONDITIONING WORKS
KARPI BRANCH RBO AURANGABAD : AO GAYA

NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELECTRICAL					
1	MAIN INCOMING SOURCE PANEL (MISP) : Supply, installation, testing and commissioning 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 compartment. The Panel shall be complete with switches as per site requirement, interconnection, 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 E-I-C. The Panel consists of the following INCOMING : 1 No. : 415V,160A 4P MCCB (36 KA) for Mains(Ics=Icu=100%), 1 No. : 415V, 125A 4P MCCB (36 KA) for DG, 1 No. : 415V, 160A 4P On-Load Changeover Switch 2 No. : Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power. 6 Nos.: LED Phase indicating lamps, 6 Nos.: Suitable CTS(200/5) PVC sleeved TPN Tinned Copper Busbar 35mm x 6mm for phases and neutral. (2sets) G.I. EARTH BUSBAR - 25mm x 3mm covering the total length of panel. OUTGOING : Termination-I: (To be connected with C.O.) 2 No 32A DP MCB for Glow Sign Board and others, 1 No 63A 4P MCCB(25KA) for Raw Power VTPN , 1 No 63A 4P MCCB for UPS, 1 No 63A 4P MCCB for ATM, 1 NO 40A DP SPARE Termination-II: (Not to be connected with C.O.) 1 Nos. 100A 4P MCCB(25KA) for AC VTPN , 1 NO 40A DP SPARE	SET	1		
2.1	(A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company made) 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. 63 A (10KA) DP MCB	No.	1		
2.2	(B) UPS OUTGOING DB: Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge. Incoming: 1 no. 63 A DP MCB Outgoing: 4 No. 40A (10KA) DP MCB	No.	1		
DISTRIBUTION BOARDS					
3	SITC of following VTPN MCCB Distribution Board (HVAC DB), having vertical fishbone busbar type, factory assembled wall mounted, sheet metal fabricated, fully powder coated, having dust proof & vermin proof hinged door with all internals such as DIN channels, neutral link, internal wiring complete with double earthing lugs including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, etc. housing following switchgears. (Schneider / ABB/ Legrand / Siemens / L&T make)				
3.1	Incoming:1 no 415V ,4P,63A MCCB ,25/36KA rating(L&T/ABB/SIEMENS) outgoing:- 8 nos 40A SP MCB(10KA), FOR RPDB/LDB/BM AC etc	SET	1		
3.2	Incoming:1 no 415V ,4P,100A MCCB ,25/36KA rating(L&T/ABB/SIEMENS) outgoing:- 12 nos 40A SP MCB, FOR AC & spare etc	SET	1		
4	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.				
a	CDB : Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 240V 40A (10KA) DP RCBO OUTGOING : 8 Nos. 240V 10A (10 KA) SP MCB	No.	2		
b	Double pole MCB DB in sheet steel enclosure with Incoming: 1 no. 25A DP ELCB, Outgoing: 2 no. 10A SPN MCB complete with interconnection, timer(QT-31) & contactor (2P 25A) for glow sign board and Street Light. (L&T/ABB/LEGRAND/SEIMENS)	No	1		

c	LDB : Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A (10KA) DP MCB OUTGOING : 8 Nos. 240V 10A (10 KA) SP MCB	No.	3		
d	UPS Essential DB for CCTv, Fire Alarm Etc: Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 240V 40A (10KA) DP RCBO OUTGOING : 6 Nos. 240V 10A (10 KA) SP MCB	No.	1		
e	RPDB :Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A (10KA) DP MCB OUTGOING : 6 Nos. 240V 10A-16A (10 KA) SP MCB	No.	3		
	WIRING				
5	Wiring flame retardant FRLS/FRLSH as mentioned in rows below in MS conduit of IS specification of proper size with all material supply installation and commissioning complete from DB. The wiring shall be carried out on surface above false ceiling, and below of false ceiling by chiseling the existing surface and plastering the same with cement etc., or as cutting of tiles(with finishing), as per site conditions after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc				
a	With FRLS 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for UPS Outgoing to LDB/RPDB/CDB	Mtr	150		
b	With FRLS 4 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for UPS input	Mtr	25		
c	With FRLS 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for cassette AC (2 tr) as per direction of E-I-C.	Mtr	130		
d	With FRLS 2 nos. 4 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for AC (1.5 tr) as per direction of E-I-C.	Mtr	25		
	POWER CABLES				
6	SUPPLY, LAYING, LUGGING, DRESSING, GLANDING, FINISHING, TESTING AND COMMISSIONING OF POWER CABLE: Following 1.1KV grade fire resistant A2XFY XLPE armored aluminium conductor cable with one no. 10 SWG GI wire , laying of the cable partly on wall/column including supply and fixing with 300mm apart MS clamps/galvanized bar saddles and double compression type brass cable gland Dowel make along with rubber rings for dust and moisture proof entry of the cable and finishing the ends by crimping method.. (POLYCAB/FINOLEX/NICCO/UNIVERSAL)				
6.1	SITC of 3.5CX 70 SQMM cable incoming cable	Mtr	60		
6.2	SITC of 3.5CX 50 SQMM cable incoming cable for AC VTPN	Mtr	25		
6.3	SITC of 3.5CX 35 SQMM cable incoming cable for Raw Power VTPN	Mtr	25		
	COMPUTER SOCKET WITH WIRING				
7	(A) COMPUTER SOCKET OUTLET WITH WIRING Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components and its wiring from CDB, 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 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm.FRLS (green colour for earth) 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.	No.	6		

	<p>(B) COMPUTER SOCKET OUTLET AND ITS WIRING 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</p> <p>3 Nos. 6/16A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) 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. (proper colour code must be followed)</p>	No.	2		
	<p>C) UPS/ RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following</p> <p>2 Nos. 6A/16A 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. (green colour for earth) 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. Proper colour code must be followed.</p>	No.	5		
	<p>D) UPS / RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following</p> <p>1 Nos. 6A/16A 5 pin modular type International sockets with indicator 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) 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. Proper colour code must be followed.</p>	No.	3		
8	<p>SITC of metal clad socket MCB for AC point with controlling 32 A DP MCB with industrial top complete in all respects in suitable enclosure.</p>	No.	6		
EARTHING					
9	<p>. SITC of <u>OBO Betterman</u> make earthing system - * - UL Listed Earth Electrode - <u>Copper bonded</u> low carbon steel electrode, coating 250 microns - Tested as per IEC 62561-2 - Meets the requirement of IS 3043 and IEC 60364-5-54 - Tested for short circuit withstanding capacity - High tensile strength In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - <u>3000 mm</u> Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (25 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp .The work shall also include required masonry work, CI cover plate & Earthing name plate. The vendor shall also submit the earth test report with required values. Pics of earthing to be shown.</p>	No.	2		

10.1	SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm cu strip	SET	2		
10.2	Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC conduit for earthing From the existing earth pit to the Main panel/UPS	Mtr.	55		
	POINT WIRING				
11	POINT WIRING AND CIRCUIT WIRING Point wiring with FRLS 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for common earth by looping method) PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked embossed on conduit surface) 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. <u>The point wiring also includes circuit wiring with FRLS 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 etc.</u>				
a	1 Light control by 1 switch	No.	47		
b	2 /3 Light control by 1 switch	No.	30		
c	UPS light point	No.	6		
d	Glow sign board wiring	No.	1		
e	Exhaust fan point	No.	5		
f	Ceiling fan point with supply and fixing of Electronic Regulator as required as per site conditions.	No.	4		
g	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room complete with wiring. Suitable Top to be provided for supply to Cash Room. /RECORD ROOM/STATIONERY ROOM	No.	4		
h	Wall fan point with socket	No.	10		
i	3 pin 6/10A modular socket with switch in board	No.	8		
12	Supply and fixing of ding-dong calling bell with complete wiring in BM's Chamber as per direction of E-I-C	No.	1		
13	MAIN TPN SFU: Supply, installation, testing and commissioning (SITC) of following TPN SFU with HRC fuses in sheet steel enclosure with cable end-box on MS Angle Frame/ MS Legs/ wall with interconnection, painting and finishing. 160A TPN SFU with HRC fuses	No.	1		
	PART B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS				
14	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted make complete with all accessories.	No.	22		
15	Supply & Fixing of 15W LED Downlighter recessed mounted of make complete with all accessories	No.	8		
16	Supply & fixing of 20W/22W LED T5 Batten fitting complete with all respect.	No.	12		
17	Supply & fixing of 35W LED Street Light with suitable mounting pipe etc. Of complete in all respect	No.	4		
18	Supply & fixing of 450mm sweep, oscillating type, wall mounting, multi speed wall fan metal blades three pin complete with all respect as per direction of Bank/E-I-C.	No.	10		
19	SITC of 1200MM ceiling fan	No.	3		
20	SITC of 9" dia 230V,1400 rpm exhaust fan as in toilets, ups room, toilets etc.	No.	5		
	PART C- LAN CABLING WORK				

21	Supply of 1 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	No.	12		
22	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	No.	9		
23	INTERNET SOCKET WITH DATA CABLE:: SITC of modular RJ-45 internet sockets with suitable mounting box (modular type) including all inter-connections as required with front plate D link or equivalent make approved by the bank connections etc as required along with supply, laying, concealing of CAT 6 LAN cables upto 30 metres or less or as per site conditions in rigid pvc conduit pipes complete in all respects from Data Rack to I/O points. Rates to include cost of LAN cable and its installation.	No.	12		
24	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories.	No.	1		
25	Charges for making and submitting neat and clean computerised Electrical Drawing of the Branch indicating SLD of the Branch, indicating DB, switch boards, etc along with proper numbering and indicating power flow and laminating the same.	SET	1		
26	Charges for making and submitting neat and clean computerised lan WIRING Drawing of the Branch indicating Data Rack, lan wiring to different I/O boxes etc along with proper numbering and laminating the same..	SET	1		
27	Supply & Installation of single color (warm white / any other approved color) flexible LED strip light for cove including required rated driver / power supply in multiples of 1 Rmtr as approved along with all necessary hardware & accessories, etc. Complete as required (PHILIPS / WIPRO / CGL / GE / Bajaj/Syska)	Rmt	55		
28	SITC of LED 5W/6w light & fixture recessed type ROUND DOWNLIGHTER in gypsum cove with all interconnection and fixing arrangements as Required.	No.	40		
	ATM WORKS				
29	MAIN INCOMING SOURCE PANEL (MISP) : Supply, installation, testing and commissioning 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 compartment. The Panel shall be complete with switches as per site requirement, interconnection, 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 E-I-C. The Panel consists of the following INCOMING : 1 No. : 415V, 63A 4P MCCB (36 KA) for Mains, 1 No. : Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power. 3 Nos.: LED Phase indicating lamps, 3 Nos.: Suitable CTS(100/5) <u>PVC sleeved TPN Tinned Copper Busbar</u> 25mm x 6mm for phases and neutral. <u>G.I. EARTH BUSBAR -</u> 25mm x 3mm covering the total length of panel. OUTGOING : Termination I: (To be connected with C.O.) 1 No 32A DP MCB for Glow Sign Board, , 1 No 40A TPN MCB FOR UPS, 1 Nos. 40A 4P TPN MCB (10 KA) for AC and Light DB , 2 NO 25A DP SPARE	SET	1		
	DISTRIBUTION BOARDS				
30	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.				
30.1	(A) UPS POWER 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.40A (10KA) TPN MCB Outgoing: 3 Nos. 32 A (10KA) DP MCB, 2 no 10 A DP MCB	No.	1		
30.2	Supply & Installation of 25A, timer switch with 2 no.s of 25A DP MCB's Along with suitable size enclosure box for switching of A.C.'s, etc. along with 2NO 25A 1M contactor in the same enclosure box for controlling 2 no.s of AC power circuit through Timer for E lobby and ATM A/C's through timer & contactor including all necessary hardware & accessories, etc. complete as required .	SET	1		
30.3	SITC of TPN Double Door DB IP42/43 with 40A FP MCB INCOMING , 32A SP MCB 2nos (AC) ; 2 nos 6 A SP MCB for light; 1 no. 240V 16A SP MCB for power point, 2 No 10 A MCB spare .	No.	1		
	WIRING				

31	Wiring flame retardant FRLS/FRLSH as mentioned in rows below in MS conduit of IS specification of proper size with all material supply installation and commissioning complete from DB .The wiring shall be carried out on surface above false ceiling, and below of false ceiling by chiseling the existing surface and plastering the same with cement etc., or as cutting of tiles(with finishing), as per site conditions after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc				
a	With FRLS 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit	Mtr	10		
b	With FRLS 4 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit	Mtr	15		
c	With FRLS 2 nos.2.5 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit	Mtr	20		
d	With FRLS 2 nos. 4 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit as per direction of E-I-C.	Mtr	20		
POWER CABLES					
32	SUPPLY, LAYING, LUGGING, DRESSING, GLANDING, FINISHING, TESTING AND COMMISSIONING OF POWER CABLE: Following 1.1KV grade fire resistant A2XFY XLPE armored aluminium conductor cable with one no. 10 SWG GI wire , laying of the cable partly on wall/column including supply and fixing with 300mm apart MS clamps/galvanized bar saddles and double compression type brass cable gland Dowel make along with rubber rings for dust and moisture proof entry of the cable and finishing the ends by crimping method.. (POLYCAB/FINOLEX/NICCO/UNIVERSAL)				
32.1	SITC of 3.5CX 35 SQMM cable incoming cable	Mtr	25		
COMPUTER SOCKET WITH WIRING					
33	<u>COMPUTER SOCKET OUTLET AND ITS WIRING</u> 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. 6/16A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) 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. (proper colour code must be followed)	No.	1		
34	UPS/ RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 2 Nos. 6A/16A 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. (green colour for earth) 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. Proper colour code must be followed.	No.	3		
35	UPS / RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 1 Nos. 6A/16A 5 pin modular type International sockets with indicator 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) 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. Proper colour code must be followed.	No.	1		
36	SITC of metal clad socket MCB for AC point with controlling 20 A DP MCB with industrial top complete in all respects in suitable enclosure.	No.	2		
EARTHING					

37	<p>. SITC of OBO Betterman make earthing system - * - UL Listed Earth Electrode - <u>Copper bonded</u> low carbon steel electrode, coating 250 microns</p> <p>- Tested as per IEC 62561-2</p> <p>- Meets the requirement of IS 3043 and IEC 60364-5-54</p> <p>- Tested for short circuit withstanding capacity</p> <p>- High tensile strength</p> <p>In one set it should include:</p> <p>a) One nos of Earthing rod-Type 17 3000 CCER, Length - <u>3000 mm</u></p> <p>Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded</p> <p>b) One bag (25 KG) Earth Enhancement Compound confirming to IEC 62561-7</p> <p>c) One nos of universal clamp .The work shall also include required masonry work, CI cover plate & Earthing name plate. The vendor shall also submit the earth test report with required values. Pics of earthing to be shown.</p>	No.	1		
38	SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm cu strip	SET	1		
39	Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC conduit for earthing From the existing earth pit to the Main panel/UPS	Mtr.	20		
	POINT WIRING				
40	<p>POINT WIRING AND CIRCUIT WIRING</p> <p>Point wiring with FRLS 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for common earth by looping method) PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked embossed on conduit surface) 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.</p>				
a	1 Light control by 1 switch	No.	10		
b	UPS light point	No.	1		
c	Glow sign board wiring	No.	1		
d	3 pin 6/10A modular socket with switch in board	No.	1		
	PART B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS				
41	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted make complete with all accessories.	No.	2		
42	Supply & Fixing of 15W LED Downlighter recessed mounted of make complete with all accessories	No.	4		
43	Supply & fixing of 20W/22W LED T5 Batten fitting complete with all respect.	No.	2		
44	Supply & fixing of 35W LED Street Light with suitable mounting pipe etc. Of complete in all respect	No.	2		
	PART C- LAN CABLING WORK				
45	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	No.	2		
46	<p>INTERNET SOCKET WITH DATA CABLE:: SITC of modular RJ-45 internet sockets with suitable mounting box (modular type) including all inter-connections as required with front plate D link or equivalent make approved by the bank connections etc as required along with supply , laying ,concealing of CAT 6 LAN cables upto 30 metres or less or as per site conditions in rigid pvc conduit pipes complete in all respects from Data Rack to I/O points. Rates to include cost of LAN cable and its installation.</p>	No.	3		
47	SITC of CAT 6 LAN cables (D-link/Equivalent) in rigid pvc conduit pipes complete in all respects from Branch to ATM include end terminations as required complete in all respects as per Direction of Bank.	Mtr	40		

48	Supply & installation of 6U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories.	No.	1		
49	UPS INPUT:- Incoming 3 PIN (2P+1E) industrial type socket with matching plug and MCB:- 20/32Amp DP UPS OUTPUT:- Incoming 3 PIN (2P+1E) industrial type socket with matching plug and MCB:- -20/32 Amp DP 1No. Make- (Legrand/L&T/Schneider)	SET	2		
Air conditioning Works					
Design,Supply , installation, testing & commissioning of air-conditioning units (including MS frames/stands for standard installation of indoor and outdoor units)as per the details of scope of work, specifications and components given else where in the tender. (please read before quoting)Note:The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain If the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security deposit, or any other money due on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particulary with the False Ceiling. The quantities as mentioned of AC are provisional may increase/decrease/withdrawn as per requirement of site or instruction of Bank.					
High Side Items					
50	Supply of following Ceiling Mounted 5 STAR 4-way Cassette type AC with scroll / Rotary / Twin rotary / Reciprocating compressor, having R 32/R-410A eco friendly gas. Including indoor unit & outdoor unit. decorative grille and cordless remote Machine shall have copper condenser Unit. (The positions must be designed in an apt away as per site conditions) (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar)				
51	Supply of single phase 5 STAR 2.0 TR or nearest higher rating Capacity Copper (inverter technology) Cassette type split air conditioners with Copper Condensor Coil and eco friendly refrigerants (R32 or R 410A). (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) FOR HALL AREA	No.	4		
52	Supply of <u>1.5 TR</u> Hi wall split Air Conditioner Unit (5 STAR inverter type copper) , standard kit, ref pipe, cable etc & fixing accessories. (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For BM chamber	No.	1		
53	Supply of <u>1.0 TR</u> Hi wall split Air Conditioner Unit (5 STAR inverter type copper) , standard kit, ref pipe, cable etc & fixing accessories. (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For ATM	No.	2		
Low Side Works					
54	Refrigerant copper piping both in and out, laid between indoor & outdoor unit as per OEM's specifications duly insulated with Class "O" fire retardant 6 mm sleeve type elastomeric nitrile rubber insulation. It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hang or shall be fixed on wall / beam etc. with clamps & the distance between two clamp shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be fixed with false ceiling members. The diameter / gauge of the ref.pipe shall be as per the specifications of the Manufacturing company (OEM) only for each type of				

54.1	For Cassette AC (2.0TR)	Rmt	60		
54.2	Extra refrigerant pipe for Split AC	Rmt	6		
55	Drain Piping: Insulated Condensate Water Drain piping constructed out of PVC / HDPE hard pipes, fitting, accessories, bends, elbows, tees, flanges, tappings, wall sleeves, hangers, supports, anchors Fastners.				
55.1	Drain pipe	Rmt	60		
56	SITC of Electrical Power Cabling between indoor unit & outdoor unit as per OEM's design & specifications in 25mm dia., conduits with accessories The power shall be made available at 1 place & single core wire shall not be used. It shall be in clamping manner above false ceiling & in concealed manner below false ceiling level. From structural ceiling it should hange or shall be fixed on wall/beam etc. with clamps at distance not more than 1 meter. It shall not be placed over the false ceiling nor shall be fixed with false ceiling members.				
56.1	Control cable between indoor & outdoor unit for cassette AC	Rmt	60		
56.2	Extra Control Cable for split AC	Rmt	10		
57	Installation charges of the 2.0 TR/1.5TR Copper Cassette Type/ Split AC including outdoor frame / stands to withstand the full load of outdoor units and making good all the damage.	No.	7		
SUPPLY & INSTALLATION OF STABILISERS					
58	For 2 ton cassette AC (5 KVA) stabiliser with metal body	No.	6		
59	For 1.5 ton/ 1 ton Cassette AC/split stabiliser with metal body (4 KVA)	No.	1		
61	All sort of Civil work required to be executed in order to make the Air-conditioning system installed & put in working condition. The item includes, making holes / gaps in walls to pass duct & pipes, making zaries required for various types of drain, refrigerant & drain water pipes / lines in walls, floor etc. using cutter machine, including core cutting , wall cutting etc as required.	Job	1		
		TOTAL (Rs.)			
	Grand Total				
	(GST will be extra as applicable)				
	NOTE: The rate quoted shall be firm and shall include all costs, allowances, Charges, levies, Royalties, Cess, transportation etc. but excluding GST as applicable which will be reimbursed by the Bank as per Government norms prevailing from time to time. Contractor's are advised to visit the site before quoting. The quantities are tentative may increase or decrease as per site requirement.				
RECOMMENDED MANUFACTURERS					
1	Cables- (POLYCAB/FINOLEX/NICCO/UNIVERSAL)				
2	WIRES – (POLYCAB/KEI/FINOLEX/RR-KABEL)				
3	DB/MCCB/MCB/RCBO/ELCB- ABB				
4	CHANGE-OVER-SWITCH - L&T/HPL /SOCOME/ABB				
5	SWITCHES/SOCKETS/REGULATOR- ABB(TVISHA)/LEGRAND(MYRIUS)/NORTH WEST				
6	METAL CLAD SOCKET & PLUG- L&T/LEGRAND/ABB/C&S				
7	MEASURING INSTRUMENTS- AE/ IMP/ L&T/ GE/ TELEMECANIQUE/ PROK/EQUIVALENT				
8	LED LIGHTS – PHILIPS/HAVELLS/CROMPTON/EQUIVALENT AS APPROVED BY E-I-C.				
9	CEILING FAN/WALL FAN/EXHAUST FAN- CROMPTON/HAVELLS/ALMONARD/USHA/POLAR				
10	EXHAUST FAN - CROMPTON/ BAJAJ/ALSTOM/ALMONARD/GOLD MEDAL/HAVELLS				