SMALL BRANCH WITHOUT ATM/ E-LOBBY - 100A MCCB INCOMER - 8+18WAY TPN DB as ACDB

STATE BANK OF INDIA – ADMINISTRATIVE OFFICE KALBURGI BOQ FOR ELECTRICAL WORKS OF ALIPUR BRANCH, RBO- 3.

				SU	PPLY	ERE	CTION
L NO	. DESCRIPTION OF WORK						
1	ENERGY METER CUBICLE :	QTY	UNIT	RATE	Amount	RATE	Amount
а	. Fabrication, Supply, Installation, testing & Commissioning of energy Meter cubicle made out of 16 SWG CRCA sheet consisting of the following. (to be fixed outside the building). FOR 3-PHASE ENERGY METER- for Branch						
	separate chamber for energy meter (with fixing plate, view glass and holes with rubber gromets), CTs, Cutouts & switchgear etc. and consisting of the following.	0	Set				
	3 Nos.125A Open Type bakelite cutout fuse unit with 80A HRC fuses						
	1 no. 125A 4 pole SFU with 100A HRC fuse (L&T)]					
	Complete with all inter connections and powder coated painting .						
2	MAINS CHANGE OVER Supply and installation of 125A, 4pole ON Load Change over switch with suitable metallic enclosure with cable entry Box and Powder coated painted with 6nos of 2A SP MCB and LED (R,Y,B) indicators for the identification of EB/ DG Set – ON & neat marking thereof:	0	Set				
	separate chamber for MFM- energy meter (with fixing plate, view glass and holes with rubber gromets), CTs, Cutouts & switchgear etc. and consisting of the following.						
3	MAIN PANEL / DISTRIBUTION BOARDS						
а	MAIN Panel (VDB) : Supply , Installation, testing and commissioning of Double door 8 way TPN MCCB VDB consisting of the following						
	100A, 10kA 4P MCCB as incomer-						
	63A , 3 pole MCB (C Series) -3 No. (To PDB,ACDB,ATM DB) 9 3	0	Set				
	40/63 A 3 pole MCB MCB (C-series) -4nos (ATM DB,UPS I/P) 9 3	1					
	32A, 3 pole MCB(C-series) - 2nos (to LDB) 3 1						
	20A, single pole MCB (C -series) -3nos (AC .units,)						
	16A, single pole MCB(C-series) – 3nos (to NB , AC units) 1 0						
	100A COPPER Bus-bar for 3 phases 8						
	Complete with all interconnection	1	1			1	

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4	Main DB – (VTPN - DB): Supply, Installation, testing and Commissioning of Double door (8+6way) VTPN MCB VDB consisting of the following.			
	63A, 300mA RCCB + MCB as incomer -1nos.			
	25/32A 3 pole MCB MCB (C-series) -3nos (3ph AC units, LDB, UPS) 12 4			
	20A , single pole MCB (C -series) -4nos (single ph AC .units, UPS, Signage) 3	1	Set	
	16A 'C' Series MCB as out going - 5 Nos. (Raw power circuits, single ph AC .units) 3 1 +1spare			
	80A Copper BUS BAR for 3 phases 6			
	Complete with all inter connections.			
5	PDB: Supply, Installation, testing and commissioning of Double door TPN MCB DB (8+18 way) consisting of the following.			
	63A, 100 mA FP RCCB + FP MCB as Incomer - 1 No.			
	10/16A 'C' Series SP MCB as out going - 12 NosRaw power	0	Set	
	20/32A 'C' Series DP MCB as out going - 1 Nos External lighting			
	24hr digital timer 1NO,1NC – 2nos			
	Complete with all inter connections.			
6	LDB: Supply, Installation, testing and Commissioning of Double door (8+12way) TPN MCB DB			
	consisting of the following.			
	40A, 30mA FP ELCB + 4P MCB as incomer -1nos.	1	Set	
	6/10A, B-series MCB as out going -12nos			
	Complete with all inter connections.			
7	BUS BAR Box – Supply, Installation, testing and Commissioning of single door Bus bar box with separate .			
	100A Copper bus bars-25mmX3mm X150mm -4nos with insulators mounted on insulator bushes. \// for remote UPS Rooms	1	Set	
8	UPS IN PUT DB Supply and installation of 40 A FP MCB in suitable metallic enclosure for UPS Input.	1	Nos.	
9	UPS OUT PUT DB Supply and installation of 32A DP MCB in suitable metallic enclosure for UPS Input.	1	Nos.	
10	ATM DB : Supply, Installation, testing and commissioning of Double door (8+12way) TPN MCB DB consisting of the following.			
	63A, 100 mA RCCB + MCB as Incomer - 1 No.			
	20A , single pole MCB (C -series) -2nos (single phase AC .units)	0	Set	
	10/16A 'C' Series MCB as out going - 2 Nos Raw power	↓	061	
	6/10A, B-series MCB as out going -4nos – Lighting circuit	1		
	24hr digital timer 1NO,1NC – 2nos	1		
	Complete with all inter connections.			
11	<u>UPS CHANGE OVER PANEL</u> Supply erection testing and commissioning of 2 Nos. 40A rotary type change over switch in suitable metal box with 4 Nos. LED indicator for input / output identification. UPS Output change over switch board.	0	Set	

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12	COMPUTER DB Supply, erection, testing and commissioning of wall mounted type double door dust and vermin proof 8 way SPN MCB DB fixed on wall comprising the following:			
	40A, 2 pole MCB isolator - 1 No.	1	Set	
	6A / 16A MCB - 6 Nos.		001	
	SPN MCB DB - 8 way			
13	CABLE LAYING AND TERMINATIONS Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall / ceiling / trench / cable tray if necessary.			
	i) 4 x 70 Sq.mm AYFY (Main Cable) f	0	Mtr.	
	ii) 3.5x 50 Sq.mm AYFY (Main Cable) f	0	Mtr.	
	lii) 4x 25 Sq.mm AYFY (UPS Bus box,ATM DB)	55	Mtr.	
	iv) 4x16 Sq.mm AYFY (To ACDB, PDB & ATM DB)	0	Mtr.	
	v) 4x10 Sq.mm AYFY (LDB, 3-phase AC), EXTERNAL LIGHTING	18	Mtr.	
14	End termination of the following size of cables using flange type cable glands and heavy duty tinned aluminium crimping type cable sockets including gland earthing.			
	i) 4x70 Sq.mm AYFY	0	No.	
	ii) 4x50 Sq.mm AYFY		Nos.	
	lii) 4x25 Sq.mm AYFY	4	Nos.	
	iv) 4x16 Sq.mm AYFY	0	Nos.	
	v) 4x10 Sq.mm AYFY	2	No.	
15	GI - CABLE TRAY: Suppy and installation of medium duty Ladder type cable tray of 500mmx50mm(WxH)	0	Mtr.	
16	EARTHING AND LIGHTING PROTECTION			
а	Supply and providing ISI pipe earthing as per IS 3043 with 2.5m long 40mm dia B class G.I. pipe providing GI clamp at the top of the GI pipe test joint, filling around the GI pipe at the radius of 15cm with homogeneous mixture of charcoal, common salt and river sand up to height of 2.5m from the bottom and the rest of the portion with excavated soil, providing brick work masonries, plastering, fixing cast iron cover of 30x30cm size etc. complete.	2	No.	
b	Making of Copper plate(600mmx600mmx3mm) Earth-pit as per IS 3043 complete with charcoal, funnel set etc., including making of 450 x 450mm brick masonary chamber with Cl / stone / fabricated / RCC cover with lifting handles stone / fabricated / RCC cover with ligting handles etc., complete as required.	2	Nos	
С	EARTH CONDUCTORS Supply and laying of the following size of bare copper conductor along with above cables, for interconnections between panels, DBs, change over switches etc.and also for interconnections between earth pits.			
	i) No.10 SWG	65	Mtr.	
d	Supply and laying of 2 X No. 10 SWG copper conductor through 20mm PVC conduit for UPS earthing.	55	Mtr.	
е	Supply and laying of 1run No.10 SWG copper conductor/ 6sqmm PVC insulated (FRLS type) flexible copper wire - through 20mm PVC conduit for D'kraft RACK's lightning protection.	15	Mtr.	

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	Supply and laying of 25x3mm GI strip/tape supported on porcelain insulator on every 1m distance for lighting arrester system – the strip shall be insulated from having any direct contact from the building -shall use UPVC conduits while crossing the wall etc.	0	Mtr.		
	Supply and installation of - Copper Lightning arrestor spike – of 1m supported over proper insulator and connected to GL strip using proper nut bolt system.	0	Nos		
	Supply & installation of 4m length 40mm dia C-class GI pipe to be fixed over the terace of the building to erect Copper lightning arrester spike. The pole shall be mounted on insulators.	0	Nos		
i.	Supply and providing tinned copper earth bench using 25 x 3 mm copper strip (25 Cm in length)	2	Nos.		
17	WIRING FOR LIGHT, FAN, PLUG, SOCKETS ETC				
	Point Wiring : Supply and wiring for light /fan/exhaust fan/calling bell/mirror lamp/ bulkhead light/ wall fans etc. With 3plate ceiling rose and by using 3x1.0 sqmm. (1.5sqmm). PVC insulated copper conductor wire in 20mm dia 1.5mm thick rigid PVC conduit, controlled by 5A modular switches with provision for modular type Ceiling fan regulator on separately fabricated MS Box. The M.S box should be earthed properly. One way point.				
a.	Single light point controlled by a 6 Amp switch.	15	No.		
b.	Two light points controlled by a 6 Amp Switch	5	No.		
C.	secondary light point connected to the two light points controlled by a switch.	9	No.		
d.	2-WAY controlled lighting point for staircase, bed switch etc.	0	No.		
e.	Wall fan point - 6A, 3 pin modular socket on suitable metal box for wall fan controlled by switch in common SB.	3	Nos.		
18	Supply and fixing of Modular type 5A 3pin plug points controlled by 5A modular switch mounted on suitable box (on common switch board)	4	No.		
	Supply and fixing of Modular type 5A 3 pin plug points with 5A modular type switch in separate location.	2	No.		
	Same as above but for 2 Nos. modular type 5 A 3 pin plug points with 2 nos. 5A modular type switch in separate location. (both sides of cash cabin desk, nodes etc) - Raw power SB	3	No.		
21	Supply and fixing of modular type 15A plug socket with 15A modular type switch mounted on suitable Box(for Mgr cabin, Cash Cabin, Pantry, Water cooler, etc) .	1	Nos.		
	Supply and installation of combined 5A modular plug socket with 5A modular switch & 15A combined modular plug socket with 15A modular switch in single box.(for EB supply at cashier counters / Manager cabin/ATM)	0	Nos.		
	Supply and providing 16 A plug top and 1.5m long 3 core 2.5Sqmm flexible copper cable (FRLS Type) for taking incoming supply from 16A socket. (For UPS/EB supply to back office manager & EB supply to strong room, line printer and record/ stationary rooms)	1	No.		
	CIRCUIT WIRING: Supply and wiring wall / floor etc. / recessed / surface as per colour code with 3 runs of 1.1KV grade 1.5 Sqmm PVC insulated flexible copper wire for phase neutral and earth conductor with standard colour coding, through ISI marked 20mm dia rigid PVC conduit with all accessories. The rate includes the cost of complete wiring from switch box to switch box. THE WIRING SHALL BE DONE	25	Mtr.		

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25	Same as above but with 3 x 2.5 Sq.mm PVC Insulated copper wire(FRLS Type).(for lighting main circuit, 15A plug points & UPS point wiring)	162	Mtr.		
26	Same as above but with 3 X 4sqmm. PVC insulated copper wire(FRLS Type). (for 1.5 / 2 T AC and UPS Out put COS to computer DB and for the Name Boards if there are multiple name boards or extra ordinary lengthy—Name Boards)	22	Mtr		
27	Same as above but with 4 x 2.5 Sq.mm with 2 x 1.5 sq.mm (for3ph 3T inverter AC units)	22	Mtr		
28	Same as above but with 4 x 4Sq.mm with 2 x 2.5 sq.mm (for3ph 3T/4T inverter AC units)	0	Mtr		
29	Same as above but with 4 x 6 Sq.mm with 1 x 4 sq.mm (for3ph UPS input)	0	Mtr		
30	Same as above but with 3 x 6 Sq.mm PVC Insulated copper wire through rigid conduit (32mm) on wall and flexible conduit on floor for UPS Input.(4m length x 2 UPS), AC input 3Tr/ 4Tr inv AC	25	Mtr		
31	Same as above but with 4 x 10 Sq.mm + 1 x 6 sqmmPVC Insulated copper wire through rigid conduit on wall of 2x32mm dia	15	Mtr		
32	Supply and Installation of 25A Modular type 3 pin plug socket with suitable metallic box for air curtain/air conditioners.	2	No.		
33	Supply and Installation of 32A Modular type DP switch having indicator with suitable metallic box for the local control of the air conditioners/air Curtain.	2	No.		
34	Supply and installation of 20/32A FP MCB in suitable weather proof enclosure for local control of 3ph air conditioners.	1	No.		
35	Supply and installation of DOL starter for PUMP motor with thermal overload protection, for 2hp motor	0	No.		
36	UPS POWER STATIONS:				
	UPS Power Stations::: Supply install Test and commissioning of computer power stations with 3nos 5A modular type sockets and 1nos 15A modular type sockets controlled with (1nos. 15A modular type single pole switch with indicator mounted on M/S Box.) / controlled by master switch (item 39) The boxes should be Fixed on – wall/ partitions (wooden, concealed or open as required at site. Maximum 3 sets per Circuit.	6	No.		
37	Same as above but for 2 Nos. modular type 15 A 3 pin plug points with 2 nos. 15A modular type switch in separate location.(for Data Kraft rack / I/O Rack/ Cash cabin)	2	No.		
38	Same as above but for 2 Nos. modular type 6 A 3 pin plug points with 2 nos. 6A modular type switch with indicator in separate location.(for countrers, Head cashier, etc on wall panel/ partition - Above the tabe and on wall for token machine, CCTV, TV etc)	1	No.		
39	Supply, install, test and commissioning of 16A modular type master switch with indicator with suitable PVC box for the main control of UPS stations in the counters.	5	No.		

	Sneeti			
	PVC CONDUITS: Supply and Fixing of following sizes of FRLS PVC conduit along with the accessories in surface in ceilling/ recess in walls, flooring including cutting the wall / floor etc., and making good the same in case of recessed conduit as required.			
a.	32mm dia. Conduit (Medium)	20	Mtr.	
b.	25mm dia. Conduit (Medium)	12	Mtr.	
C.	20mm dia. Conduit (Medium)	11	Mtr.	
	Marking of Panels, DBs, its switch and fuse ratings, cable size, location etc (Neat identification from top to extreme load end of both light and power distribution including EB / UPS plug sockets and generator switch boards) using white / black paint and stencil. (free hand writing not allowed). Good quality stickers may also be used.	1	LS	
42	Charges for Preparation of SLD (Single Line Diagram) of the whole electrical installations using AutoCAD, Lamination and displaying it inside the UPS room. (Size – A3 /A2/A1).	1	LS	
	Service charges for liaison work with EB authorities on behalf of bank for getting sanction for additional load, getting order for statutory payments, shifting/replacements of suitable. Energy meter meter if necessary, submission of completion report, obtaining final load sanction from concerned EB and displaying it in the UPS room after lamination. Etc.	0	LS	
44	Providing Temporary UPS, raw poer and LAN connections to counters during the ambiance improvement works and providing required temporary lighting arrangement for doing works.	0	L.S	
45	Removing old and unwanted wirngs from the premises, and disposing the same.	0	L.S	
46	LIGHT FIXTURES & FANS			
	Supply and Installation of 36~40W 2'x2' Square recess mounting (gypsum board ceiling) LED type square luminaire (including required fixing frame, chain for suspending fron RCC ceiling) -Wipro, HPL, Havells, Orcus, 595mmx595mm cut out	10	No.	
b.	Supply & installation of 20 ~18 Watts DLED type LED light fitting with lamps and white reflector on false ceiling (UPS Light points) - ~ 205mm cut out	4	Nos	
C.	Supply & installation of 1 X 9 Watts DLED type LED light fitting with lamps and white reflector on false ceiling - ~135mm cut out	6	Nos	
	Supply and Installation of Strip LED lights in false ceiling coves of Blue & warm White shades of base rate Rs.100/m	0	Mtr	
e.	Supply and fixing of 2W LED spot lamp round with metal body. warm light for counters	4	Nos	
f.	Supply and fixing of 1 X 20W LED 4' tube set on wall /ceiling. Slim	6	Nos	
	Supply and Installation of 36~40W 2'x2' Square surface mounting LED type square luminaire (including required fixing frame, chain for suspending fron RCC ceiling) -Wipro, HPL, Havells, Orcus, CGL 600 <i>mmx600mm</i>	0	No.	
	Supply and Installation of 36~40W out door type street light fixture LED including required fixing frame/pipe,) -Wipro, HPL, Havells, Orcus	0	No.	
i.	Supply and Installation of 20W out door type street light fixture LED including required fixing frame/pipe,) -Wipro, HPL, Havells, Orcus,CGL	0	No.	
j.	Supply & installation of calling bell	1	Nos	

	Sheet1			
k.	Supply and installation of 9" size medium duty exhaust fan. (Toilets/ dinning) Crompton Greaves	0	Nos.	
I.	Supply and installation of 12" size medium duty exhaust fan. (UPS Room) Crompton Greaves	2	No.	
m.	Supply and Installation of 400 mm sweep wall fan. Crompton Greaves	1	No.	
n.	Supply amd installation of 1200mm sweep ceiling fan. (Crompton Greaves High Speed)	1	No.	
0.	Supply and Installation of step type modular electronic regulator.	1	No.	
p.	Supply and providing fan rod with painting (upto 1m length) (other than that supplied with fan and if required)	1	Nos.	
q.	Supply and providing fan hook on ceiling.	1	No.	
r.	Supply and installation of 9W LED bulb with suitable batten holder (Toilets & UPS light points)	2	Nos.	
	PART - A TOTAL AMOUNT IN FIGURES			
	PART - A TOTAL AMOUNT IN WORDS			
	PART - B			
	<u>TELEPHONE</u>			
1	Supply and wiring using 2 pair telephone cable (0.5mm²) in 20mm PVC conduit from the EPABX to the individual points. One separate cable for each point. Number of cables in one conduit limited to 5.			
	2 pair telephone cabling	75	m	
	5 pair telephone cabling (1 run for EPABX)	120	m	
2	Supply and fixing of RJ 11 type modular telephone socket on suitable PVC / metal boxes.			
	Telephone socket - single (modular type)	4	No.	
	Telephone socket - double (modular type)	1	No.	
3	Supply and installation of KRONE connector telephone junction box of 20 pair.	2	No.	
4	Supply and installation of KRONE connector telephone junction box of 10 pair.	0	No.	
	PART - B TOTAL AMOUNT IN FIGURES			
	PART - B TOTAL AMOUNT IN WORDS			
	PART - C			
	MUSIC SYSTEM			
1	Supply and wiring as per colour code transparent speaker cable 2.50sqmm PVC insulated stranded copper wire 2 runs through ISI grade 20mm conduit for speakers.	52	m	

	Sheet1				
2	Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker.	3	No.		
	PART - C TOTAL AMOUNT IN FIGURES				I
	PART - C TOTAL AMOUNT IN WORDS				
	PART - D				
	DATA CABLING				
1	Supply and laying of CAT 6 UTP cable through 25mm dia rigid PVC conduit with all accessories etc.(2 run for SBI Connect also)	0	m		
2	Supply and fixing of CAT 6 Modular Information outlet with SM box on wall / partitions etc.	0	No.		
3	Supply and installation of 4U/6U wall mounted type rack. (HCL/Valrack make)	0	No.		
4	Supply and Installation of CAT6 24 port patch panel in the 4U wall mounted type rack.	0	No.		
5	Supply and installation of CAT6 26 port (1000Mbps) switch in the 4U wall mounted type rack.	0	No.		
6	Supply and installation of 1 m long patch chord.(CAT 6)	0	Nos.		
7	Supply and installation of 2 m long patch chord. (CAT 6)	0	Nos.		
8	Supply and installation of 3 mlong patch chord. (CAT 6)	0	Nos.		
	PART - D TOTAL AMOUNT IN FIGURES				
	PART - D TOTAL AMOUNT IN WORDS				
	PART - B				
	PART - C				
	PART - D				
	TOTAL (Excluding GST)				
	(Rupees				