



**PREMISES DEPARTMENT  
ZONAL OFFICE JHANSI**

**TENDER DOCUMENT  
ELECTRICAL & DATA CABLING WORKS IN NEW PREMISES OF  
INDIAN BANK – KADAURA BRANCH & ATM DISTRICT – JALAUN**

**PART II – FINANCIAL BID**

Ref:No : ZOJHI:PRM:2024-25

Date : 17/09/2024

Issued to:

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<b>Last date for submission of Bid</b>	25/09/2024 upto 15:00 HRS at Indian Bank, Zonal Office, Premises Department, 92, Civil Lines, Bank Chauraha, Jhansi - 284001
<b>Date of Opening of Technical Bid</b>	25/09/2024 at 16:00 HRS at Indian Bank, Zonal Office, Premises Department, 92, Civil Lines, Bank Chauraha, Jhansi - 284001
<b>Date of Opening of Financial Bid</b>	To be intimated separately to the Firms Qualifying in Technical Bids

**CONSULTANT:**

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**SCHEDULE OF QUANTITIES**

**TENDER FOR ELECTRICAL & DATA CABLING WORK IN NEW PREMISES OF**

**INDIAN BANK – KADAURA BRANCH & ATM, DISTRICT – JALAUN**

B	SCHEDULE - 'B' (ELECTRICAL WORK)				
SL No	PARTICULARS	UNIT	QTY	RATE	AMT
1	<b>ELECTRICAL WIRING &amp; EARTHING</b>				
1.1	Supply,laying,connection & testing of light,fan point, wiring by 2x1.5mmsq(2x3/.029) +1x1mmsq PVC insulated, multistrand single core copper conductor FRLS wire maintating the colour code as per direction in PVC conduite of 20mm with ISI mark 1.5mm thickness to conceal in wall partition mending good the damage, complete with PVC circular box, bend to be done as per drawaing including 3 point ceiling rows wherever required GI saddle to be used for fixing,metal flexiabile/PVC flexiabile pipe may use if requied in partition wall. All PVC pipes should be with ISI mark. No joints will be allowed inside pipe,light, fan & plug point complete with modular type switch plate & MS box . rate Including the main circuite line 2x2.5mmsq+1x1.5mmsq earth PVC insulated Cu. Wire from DB to switch board ,maintaining the colour code. Circuite line for lighting switch board & 6Amps plug board are to be drawn from lighting DB to Lighting board & plug point board (independent ), 6/16 Amps plug point line are to be draw from power DB.as per DBschedule /SLD				
a)	1 light by 1 switch (ATM 1 No),UPS Pt 3 In branch 1 in ATM	Nos.	27		
b)	2 light by 1 switch	Nos.	18		
c)	3 light by 1 switch	Nos.	0		
e)	Ceiling fan point with step type electronic regulator	No	4		
f)	Same as above, but for exhaust fan excluding regulator.	No	3		
g)	Same as above 5A Point in the switchboard itself. (for branch 4 No & ATM 1 No)	No	8		
h)	same as above Wiring for call-bell point including buzzer	No	1		
i)	Wiring (2x2.5mmsq+1x1.5mmsq from power DBs) for independant 6A multi pin socket at walls along with 6A modular type switches board housed in painted MS box (upto 3 independent plug points can be taken in one circuit). For wall Fan	No	8		
1.2	Supply and installation of modular type 2 nos 6A & multi pin sockets with 2 nos 6 Amp one way switch housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer including wiring for Raw power socket outlet using 2 R runs of 2.50 Sqmm and single run of 1.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 20mm PVC conduit to be laid in floor, partitions, etc. complete with all accessories (looping 2 sets of 2x6A socket outlet in one circuit- from DB) (Raw power). for counter ( Each counter 1 Nos +BM :2 Nos, ATM 1No:,Pantry 1No.:)	No	5		

1.3	Supply and installation modular type 16A, 5-pin socket with 16A one way switch housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer , the rate shall include wiring fusing 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories (for line printer : or optional).(upto 2 independent plug points can be taken in one circuit) C.C :1No. BM.:1 No.: Alternative counter 2No + Banking Hall 1 No+ Pantry 1No ,ATM :1No)	Nos.	7		
1.4	Supply and installation of power supply disconnection arrangement for strong room consisting of 1 no 10A DP MCB housed in manufacturer's powder coated MS box to be fixed inside the strong room and connected with 1 no 3-pin metal clad plug with 2 metre long 3 core 2.5 sqmm PVC insulated flexible copper conductor cable.	Set	1.00		
1.5	<b>Acs electrification :-</b>				
(a)	Supply and fixing 25 Amps 3-pin modular socket with 25 Amp one way switch with indicator (near AC indoor unit) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) -(from Stabilizer to IDU)Supply. (2 Nos for ATM), Stabilizer to be installed in the panel room.	Nos	5		
(b)	Supply and fixing 25 Amp - 3 pin metal clad socket with plug controlled by a 25 Amp SP MCB (for Ac wall mounted stabilizers) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) from AC DB to Stabilizer (2 Nos for ATM)	Nos	5		
(c)	Supply and fixing 20A 3-pin modular socket with 20A one way switch with indicator (near AC indoor unit) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 2.5 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) -(from Stabilizer to IDU)Supply.Stabilizer to be installed in the panel room.	Nos	2		
(d)	Supply and fixing 20A - 3 pin metal clad socket with plug controlled by a 20A SP MCB (for Ac wall mounted stabilizers) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 2.5 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) from AC DB to Stabilizer	Nos	2		
2	<b>LAYING OF CABLE :</b>				

2.1	Supply laying fixing main power with 50mm sq 3.5 core PVC insulated,PVC sheated Alu.Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear Gl.wire as running earth .( Meter panel to Main Panel & Dgset to Main Panel )	Mts.	25		
2.2	End termination of 50mmsq 3.5 Core armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	Nos	8		
2.3	- Do - 3.5 x 16 sqmm with 02 nos 8 SWG bear Gl.wire as running earth. for Light D.B	Mts	25		
2.4	- Do - 3.5 x 25 sqmmth with 02 nos 8 SWG bear Gl.wire as running earth. for POWER & A.C.D.B , UPS & ATM	Mts	25		
2.5	- Do - termination of 25 & 16 Sqmm 3.5 Core	Nos	50		
3	<b>Out door type glow sign board wiring :-</b>				
3.1	Supply laying of main line with 2x2.5 +1x1.5 mmsq through MS conduite from main panal to glow sign board.	Mts	25		
3.2	Supply installation of 16 amps DP MCB at main entrance Glow sign board & With Electronic timer as required.	Set	1		
4	<b>EARTHING STATION :</b>				
(i)	Earthing installation as per I.E. rule conforming	Set	2		
	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copperbonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-toConductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).				
(ii)	Supply laying 2x8SWG copper bear wire from earth spike to main panal.(Electrolite wire)	Mts	30		
5	<b>MAIN ELECTRICAL DISTRIBUTION</b>				
5.1	<b>Main Panel (wall Mounted Type)</b>				
	Supply, fabricating,assembling,internal- connection, testing & conncting with incomming, out going power cables & lines as required to complete the job of cubical type electrical panal made from 14SWG CRC. M.S. sheet with proper earthing terminal(Nut-bolt &washer) 02 No.outside of panal, same nut- bolt to tighten with internal earth busbar of panal situated inside loose wire box(on top portion of panel) On top side of panel cable entry arragement to be done for incomming & out going of lines. Painting powder coating electrical grey/ seimensgrey to be done.one 6"x4" enamel type 440Volt Danger board to fix up on main panal bus-bar cover, components are as follows :-All switches are front handle operated & all MCB knob should be visual, all component to provide in separate compartment only DBs in one compartment.				

	Incomer - 100A 4P MCCB 25Ka with adjustable thermal & Magnetic trip unit -1 Nos				
	OUTGOINGS -				
	<b>63 Amps 4 pole MCB. = 04 Nos.(AC &amp; Power DB,ATM ,UPS,spare )</b> <b>40 Amp 4 Pole MCB :2 nos</b> <b>(Lighting DB,Spare) 25</b> <b>Amps DP MCB = 02 Nos.( sign board , Fire Alarm)</b> <b>Amps Meter 0-100 Amps with 3 Nos. CT &amp; selector switch</b> <b>96x96mm 01 Set (Changeover should be ON-LOAD type.)</b>				
	<b>100Amps 4pole Cu. Bus Bar. 01 Set.</b> <b>100Amps 4 pole Change over switch. 01 No.</b> <b>100 Amps FP MCCB 25KA as Gen - Set main incoming 01 NO.</b>				
	Volt meter 0-500volt A.C. 50 Hz.96x96mm with selector switch. AE make.n 01 Set				
	20mmdia LED indicator lamp 03 Nos.				
	02 Amps Sliding Fuse. 06 Set.				
	150x100mm enamel <b>Danger</b> board 440 volt. (to set on bus bar cover). 01 No.				
	Cable entry from top & bottom - removable gland plates (bottom at 2 points) c/w powder coated Grey paint (two coats) with name labels for all incoming & outgoing feeders. The panel shall be complete in all respects including all accessories such as earthing bus, Air ventilators, lifting hooks etc.	Set	1		
5.2	S/F of 3 nos. 100Amps Kit kat set link type with heavy duty neutral link and making its connection from electronic meter c/w wooden board etc.	Set	1		
	<b>POWER DB &amp; AC DB. Make standard/Legrand/ABB ,Double door</b> <b>6 way TPN MCB DB with TP MCB as incoming</b> 63 TP&N MCB as main 16Amps SP MCB - 8 Nos ( Ac :3 Nos + 2X6amp : 4Nos and 1Nos spare ) +32AMPS SP X10 NOS. (Ac 3 Nos+15 Amp: 6 Nos, 1No Spare)				
5.3	including Neutral Bar. 01 Set	Set	1		
	<b>LIGHTING DB Make standard/Legrand/ABB</b> <b>6 way TPN MCB DB with TP MCB as incoming</b> 63A TP&N MCB as main 32 AMPS DB MCB 1No: For Strong room ) 16 Amps SP MCB - 03 Nos.+ (BM +Toilet) each 1No + 1No spare 12 Amps SP MCB - 12 Nos. (Hall - 4Nos + Store room 1 No +Exteranl Lighting 1No.:+ Ups 1No + wall Fan 3 Nos.2 No spare)				
5.4	Including Neutral Bar. 01 Set	Set	1		
6	<b>UPS SYSTEM (Branch)</b>				

6.1	<b>UPS Main DB</b> Supply, erection, testing and commissioning of three phase 4 WAY, TPN MCB DB double door type with "C" Curve MCBs, IP 42 powder coated for UPS with 63A 4P MCBs – 1No as INCOMER 32A TP MCBs – 3 Nos. as OUTGOING (UPS :2Nos and 1 set,; Spare Including all interconnections & accessories etc Make standard/Legrand/ABB	Nos	1		
6.2	Supply & Fixing of 32A DP MCB in 2way SPN Db IP 20 metallic directly on wall Raw power Incoming & OutGoing supply for UPS (Branch :2 Nos & ATM 1No.)	Nos	2		
6.3	<b>UPS DB-1 &amp; 2 combined</b> 12 Way SPN MCB DB with 'C" curve MCBs. <b>Incoming</b> : 2 No. 40A DP MCB <b>Outgoing</b> : 8 Nos 6/10A ( BM: 1+1 Nos with lighting : Server & Data Rack (1+1) Nos:C.C 2Nos with lighting :counter :2 Nos) SPO MCBs Make standard/Legrand/ABB . Repective UPS lighting to be connected.(BM,C.C,Banking hall 2Nos) or as per SLD	Nos	1		
6.4	Supply and installation of modular type 3 nos 6A multi pin sockets with 2 nos 6A one way switch with indicator housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer including making connections complete the rate inclusive of Supplying and running of 3 runs of 2.5 sq.mm UPS DB's to individual powerstation through .(looping 2 sets of 3X6 A socket outlet in one circuit / or as per SLD the following size of 660 volts grade, Finolex brand PVC insulated wire (For UPS point only).(For B.M,C.C,Sever each 2Nos.) +5 Nos for Counter+Rack 1Nos)	Nos	9.00		
6.5	Supply & Laying of 4 runs of 6.0 Sqmm and 2 runs of 2.5 sqmm, PVC insulated, single core, multistranded copper conductor cable in suitable rigid / flexible metal conduit from MainUPS DB to auto phase shifter.	mtr	10.00		
6.6	Supply, installation, testing and commissioning of 40A rated 3 phase to single phase auto phase shifter for 3.0 KVA UPS (SLHD of Swift make)	Nos	2.00		
6.7	Supply & Laying of 2 runs of 6.0 Sqmm and 1 run of 2.5 sqmm, PVC insulated, single core, multistranded copper conductor cable in suitable rigid PVC conduit from automatch phase shifter to UPS unit	mtr	10.00		
6.8	Supply and Installation of Moduler type 2 X 20A plug & socket housed in for UPS output control (Branch 2 Nos & ATM 1No.)	Nos	3.00		
6.9	Supply & Laying of 2 runs of 4.0 Sqmm and 1 run of 2.5 sqmm, PVC insulated, single core, multistranded copper conductor cable in suitable rigid / flexible metal conduitfrom 3 KVA UPS to UPS DB	mtr	10.00		
7	<b>DISTRIBUTION BOARDS .Make standard/Legrand/ABB for ATM</b>				
7.1	Main DB :S/I of 4 way TPN DB approved brand legrand /Standard/ABB with 63 Amp 4p Isolator 63A FOUR POLE Isolator as main (incomer) 32 A 3 POLE MCB 2 NOS (for UPS-1 & Power & Lighting -1Nos)				

	10 Amps SP MCB 1 NO FOR LIGHT AND 10A SP MCB 2NOS FOR POWER. 2 No. 20 AMP MCB SP FOR SPLIT AC.and 1 No 10 Amp spare Or as per SLD				
	including Neutral Bar. 01 Set	Set	1		
7.2	UPS DB : 8 WAY SPN DB FOR UPS , 32AMP DP 2 Nos ( 1 No for Incoming )				
	10A SP MCB 1 NO FOR UPS LIGHT, 16A SP MCB 2NOS FOR ATM , 1No16A MCB FOR CCTV power point and 2 Nos Spare or as per SLD	Set	1		
7.5	Supply & Laying of 2 runs of 4.0 Sqmm and 1 run of 2.5 sqmm, PVC insulated, single core, multistranded copper conductor cable in suitable rigid / flexible metal conduit from UPS out put / Input control to UPS DB	mtr	10		
8	as stated item No.:1,1 but UPS lighting, 6/16 Amps plug point line are to be draw from power DB.as per DBschedule /SLD				
a)	1 light by 1 switch (ATM 1No & branch 3No)	Nos.	3		
b)	Wiring (2x2.5mmsq+1x1.5mmsq from power DBs) for independent 2X6A multi pin socket along with 6A modular type switches housed in painted MS box. For ATM CCTV UPS	No	2.00		
9	Supply and installation modular type 16A, 5-16 pin socket with 16A one way switch housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer , the rate shall include wiring fusing 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories.(UPS wiring for ATM) one circuit for one 16 amps pin socket .The rate inclusive of machine cutting the tiles from ATM power input to the ATM and laying of 25mm Upvc sleeves in order to run th wire with concealed manner. No power point shall be visible from ATM room inside.(From ATM UPS)	Nos.	2		
10	<b>Earthing</b>	-			
10.1	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copperbonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-toConductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	No.	2.00		
10.2	1 run of 7 /20 PVC insulated wire along with PVC conduits for earthing.	mts	20.00		
	<b>sub total I</b>	-			
		-			
8	<b>ELECTRICAL FITTINGS (S/I/T/C</b>				
8.1	Supply and Installation Recess mounted 2'-0"X2'-0" watt ,38 W LED FULL GLOW Philips MAKE . Light should be fixed through SS threaded bolt tighted the upper end on ceiling using anchor bolt and lower end on Light fitting with nut and bolt (RC380B G2 LED35S-6500/4000 PSU OD WH) <b>PHILIPS/WIPRO MAKE</b>	Nos.	15		

8.3	SQUARE SHAPE DOWNLIGHTER - INTEGRA 15W, 3000K, LHEBGTP5Z1W015, <b>PHILIPS Razor/WIPRO MAKE (ATM 2NOS)</b>	Nos.	36		
8.4	TUBELIGHT - T5 LED TUBELIGHT 20 W, LHLDCNVENL8Z018, <b>PHILIPS/WIPRO MAKE. ATM 1 No</b>	Nos	8		
8.5	BULB HOLDER - LHECDOL5PW1W040 (40WATTS), <b>PHILIPS/WIPRO MAKE</b>	NOS.	4		
8.6	150 mm dia Heavy Duty Exhust fan 230 voltA.C.( <b>Havells / Crompton make</b> ).(UPS & Toilet )	Nos	3		
8.7	Metal body Wall mountaing fan 450 mm dia 230 volt A.C. <b>PHILIPS/WIPRO MAKE</b>	Nos.	10		
8.8	Supply of Ceiling fan with 1200mm sweep, double ball bearing motor, capacitor, three MS blades die cast Al housing in stove enameled white with, suspension rod including all accessories of approved make.(5 star rated) (ORIENT/KHAITAN).(UPS,Strong room & Store room)	Nos.	5		
<b>SUB TOTAL</b>					
<b>TOTAL FOR ELECTRICAL WORK (B)</b>					
C	<b>SCHEDULE - 'C' (LAN &amp; TELEPHONE WORK )</b>				
S.N O.	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY.</b>		
1.0	<b>TELEPHONE SYSTEM</b>				
1.1	Wiring for telephone points with 2 pair 4/5 pair .51mm dia ATC ( annealed tinned Cu wire) with PVC insulated PVC sheathed telephone cable from tag block to the point including providing ferrules at both ends and termination at both ends including providing & fixing RJ 11 outlet, faceplate and mounting box complete of modular type 9 where 2 such points are shown, 2 such wires shall be provided) This work includes providing PVC conduits in chases from the raceway to the point. ( 1 each for branch manager, C.C. P. officer & Clerck). separate IO box to be provided for Telephone	Nos.	0		
1.2	Supplying, laying effecting terminations, testing and commisioning of 0.51mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing & fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
a	0.5mm , 5 pair armoured telephone cable from telephone connection in the premises to the crone box.	rmt	0		
b	Supplying & fixing 20 pair krone tag block with enclosure.	Nos.	0		
C	Supplying & fixing 20 pair krone tag block with enclosure. FOR safety of ATM ups points SWITCH SOCKET ENCLOSURE	Nos.	2		
2.0	<b>DATA SYSTEM - CONDUITING &amp; CABLING</b>				



2.2	Wiring for computer networking from I/O hub to computer workstation with UTP Cat-6 computer cable including providing ferrules at both ends and termination at both ends including providing & fixing frame for with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes providing PVC conduits ( 1/2", 3/4" size or as required) in chases from the I/O hub to the point. The cost includes testing, commisioning etc complete. Note : Do not run more than 3 wire in single pipe & should be concealed. ( Server,BM,CC & ATM each 2Nos and counter 5Nos)	Nos.	9		
2.3	Supply of Cat - 6 D-Link patch cord 7' 0" (ATM 1No)	Nos.	9		
2.4	Supply of Cat - 6 D-Link patch cord 3' 0"(ATM 2No)	Nos.	9		
2.5	Supply & fixing 24 Port Jack Panel Make:-D-Link	Nos.	1		
2.6	19" Rack 9U with Glass Door , Locking system Make: APW	Nos.	1		
2.7	24PORT 10/100Mbps Switch	Nos.	1		
<b>GRAND TOTAL FOR DATA CABLING LAN &amp; TELEPHONE (C)</b>					
<b>GRAND TOTAL- (B+C)</b>					

<b>A</b>	<b>GROUND TOTAL AMOUNT</b>	
<b>B</b>	<b>DISCOUNT IF ANY ( % )</b>	
<b>C</b>	<b>NET TOTAL AMOUNT</b>	
<b>D</b>	<b>GST AMOUNT (..... %) on C</b>	
<b>E</b>	<b>GROSS AMOUNT INCLUSIVE OF GST (A+B)</b>	

**GROSS TOTAL AMOUNT IN WORDS :**

Rupees..... only

Place:  
Date:

Signature & Seal of the Tenderer