



PREMISES DEPARTMENT
ZONAL OFFICE HAMIRPUR

**TENDER DOCUMENT
ELECTRICAL & DATA CABLING WORKS IN NEW PREMISES
OF INDIAN BANK - ZONAL OFFICE, DISTRICT - BANDA**

PART II - FINANCIAL BID

Date : **17.02.2023**

Issued to:

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Last date of submission of Bid	03/03/2023 upto 15:00 HRS at Indian Bank, Zonal Office, Premises Department, 10/379, Rameni Tarauns, Hamirpur - 210301
Date of opening of Technical Bid	04/03/2023 at 16:00 HRS Indian Bank, Zonal Office, Premises Department, 10/379, Rameni Tarauns, Hamirpur - 210301
Date of opening of Financial Bid	To be intimated separately to the Firms Qualifying in Technical Bids

CONSULTANT:

M/s Mohit and Associates
Architects, Interiors & Estimators,

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SCHEDULE OF QUANTITIES

**ELECTRICAL AND DATA CABLING WORK IN NEW PREMISES OF
INDIAN BANK - ZONAL OFFICE , DISTRICT - BANDA**

S. NO	DESCRIPTION OF ITEM	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
I	MAIN LT PANEL /DBs				
1.1	Supply and installation of main LT panel, wall mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coated after 7 Tank treatment, incorporating horizontal and vertical sleeved copper busbars, complete with all internal wiring, danger board, 2 earthing legs, cable chamber etc as required, housing below mentioned switch gears / meter (GA drawing of the panel got to be approved by Bank / Architect)				
a	1No. 200A, FP, Changeover Switch + 1 no. , 200A,TP, MCCB with ELR(0-3A) and CBCT as Incomer				
b	2 nos. 40A & 6 nos. 63A, TPN, MCB outgoing				
c	1 no., 0-200A, Ammeter with CTand selector switch				
d	1no., 0-500V, Voltmeter with selector switch and fuse				
e	1Set, TPN, Copper busbars of size 35mm x 5mm thk PVC insulated suitable for 250 Amp load				
f	1 Set, RYB, indicating lamps with resistors and fuses				
g	200 AMP KITKAT 4 NOS SEPERATELY For main LT panel input.				
	Full Set as above	1	SET		
2.3	Supply and installation of 8 way, TP&N 'MCB type Distribution Board(double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with earthing legs, housing following switch gears (Double door HORIZONTAL DB)				
a	1 no., 63A, TPN, ELCB(100mA) incomer				
b	24 nos, 16/20A, SP, MCB outgoing				
	Full Set as above	1	SET		
2.4	Supply and installation of 12 way, TP&N 'MCB type Distribution Board(double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with earthing legs, housing following switch gears (Double door HORIZONTAL DB)				
a	1 no., 63A, TPN, ELCB(100mA) incomer				
b	36 nos, 16/20A, SP, MCB outgoing				
	Full Set as above	1	SET		
4.1	S & I of SPN, DB for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (UPS-				

	INPUT- HORIZONTAL DB)				
a	1 no, 63A, FP, Isolator incomer				
b	3 Nos. 40A, DP, MCB, outgoing				
	Full Set as above	1	SET		
4.2	S & I of 4 Way TPN, Vertical DB for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) (UPS-INPUT-DB)				
a	1 no, 63A, FP, Isolator incomer				
b	3 Nos. 40A, TP, MCB, outgoing				
	Full Set as above	1	SET		
7.1	S & I of 200A, MCCB in sheet metal enclosure for main switch near meter and stabiliser input etc.	1	Nos.		
8.1	S & I of 200A,FP, Changeover switch in sheet metal enclosure for stabilizer bypass	1	Nos.		
	Sub Total				
II					
1 (A)	S & I of 1100V grade armoured cable having sector / circular shaped aluminum / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect in the following sizes.				
1.5	3 1/2 C X 120 Sq.mm Aluminum	40	Mtr		
1 (B)	S & I of 1100V grade armoured cable having sector / circular shaped aluminum / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect in the following sizes.				
1.1	4C x 16 Sq.mm Copper	30	Mtr		
1.2	4C x 10 Sq.mm Copper	80	Mtr		
1.3	4C x 6 Sq.mm Copper	100	Mtr		
1.4	2C x 4.0 Sq.mm Copper	80	Mtr		
1.5	2Cx 10Sq.mm Copper	40	Mtr		
2	S & I of end termination of above mentioned cables including compressed type brass glands, crimping type copper lugs, insulation tape etc. as 'required complete with earthing of glands in following sizes				
2.5	4 x 16/10/6/4 Sq.mm	12	Nos.		
2.6	2C x 10/4 Sq.mm	12	Nos.		
	Sub Total				

III					
1	Supply & Installation of concealed point wiring using 600V grade 2.5 sq mm copper conductor PVC insulated wires (with proper R, Y, B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases including circuit wires from the relevant DB and also including 1.5 Sq.mm Green Colour Copper earth wire and provision of grid plate type (ROMA) switches and sockets as approved by Bank / Architect. Each circuit feeding not more than 8 points / 800 W as per the following configuration.				
1.1	Primary light points including the cost of 5A switch	60	Pts		
1.2	Secondary light points looped from the above point	45	Pts		
1.3	5A plug point as primary point	30	Pts		
1.4	Secondary 5A Plug point on switch board	10	Pts		
1.5	Supply & Installation of raw power point on the tables consisting of one 5/15A socket with switch of other color and flexible cable of black color & circuit, concealed point wiring using 600V grade 3 C - 2.5 sq mm flexible copper cable conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases including circuit wires directly from the relevant DB (Maximum Length of Wire - 25 Mtrs) for hotplate/geyser / zerox / fridge. Taken Above False ceiling and / or through walls . Cost is inclusive of necessary cutting the walls and including PVC Pipe required for taking the wires.	38	Pts		
1.6	Indicator Light point from main panel to Banking area for indication of Mains power supply with wiring, indicator lamps etc.	1	Pnt.		
1.7	Fan point consisting of 5A socket near fan and switch on light switch board	33	Pts		
1.8	Wiring for Signages with 2 R x 2.5 Sq.mm and 1Rx 1.5 Sq.mm, PVC insulated copper conductor flexible cable to be connected to the SPN D/D consumer unit	15	Mtr		
2	Supply & Installation of concealed point wiring using 600V grade 2.5 sq mm copper conductor PVC insulated wires (with proper R, Y, B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases including circuit wires from the relevant DB and also including 1.5 Sq.mm Green Colour Copper earth wire (Maximum Length of Wire - 15 Mtrs).				
2.2	S & I of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X 2.5 Sq mm Cu. PVC sheathed white color flexible cable pulled through above False ceiling and cutting the walls as raceways are not provided and taken up to table top using PVC rigid or flexible conduits run within wooden or metal partitions. Each point consisting of 3 Nos of 2 / 3 Pin sockets and 1 No 15A switch, wired together forming one point. Switches and sockets to be (ROMA). Earth wire to be of Green colour only. (Only 2 tables served by one circuit from UPS DB) Cost is inclusive of necessary cutting the walls and including PVC Pipe required for taking the wires. Including Popup	45	Pts		

	box for Conference table				
3	ACs electrification :-				
(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 sq mm & single run of 2.5 sq mm 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.	12	Nos		
(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 sq mm & single run of 2.5 sq mm 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)	12	Nos		
(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 sq mm & single run of 2.5 sq mm 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.	2	Nos		
(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 sq mm & single run of 2.5 sq mm 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		
Sub Total					
IV					
1	S & I of floor - raceways consisting of 2 Nos of 3" x 1.5"x 3mm thick rectangular aluminum anodized box sections including chasing and refilling as per the route shown in the drawing and as approved by consultant at site including clamping at every open pipe ends by suitable plastic end covers against entry of dust or any other foreign material.	60	Mtr		
2	S & I of galvanized floor junction boxes with SS brushed finish 12 SWG (2.5 mm Thick) cover properly fixed with screws, for above mentioned raceways, of size 300mm x 300mm x 2.5 mm depth, fabricated out of 2.5 mm thick GI sheet with proper cut outs on the sides for pipe entry & screwed top cover with rubber gasket and suitable cutouts/ knockouts for flexible conduit outlets as per the drawing enclosed.	40	Nos.		



	Sub Total				
V					
1	S & I of lighting fixtures as per the details given below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant.				
1.1	Supply & installation of Batten Philips or Equivalent led light, Full size of 2ft (618 mm) ; Luminous Flux - 900 Lumens ; Wattage - 9- 10 Watts ; Bulb Features -Energy Saving; Colour:- Cool Day Light; Colour Temperature: 6500 Kelvin; Average Life - 25000 Hours; Wide voltage protection of 160-360v with 2KV surge protection	1	Nos.		
1.2	Supply & installation of HANGING LIGHT - LHECDOL5PW1W040 (40WATTS), PHILIPS/WIPRO MAKE	2	Nos.		
1.3	Supply & installation of Batten Philips or Equivalent led light, Full size of 4ft (1214 mm) ; Luminous Flux - 2400 Lumens ; Wattage - 20/22/24/36 Watts ; Bulb Features -Energy Saving; Colour:- Cool Day Light; Colour Temperature: 6500 Kelvin; Average Life - 25000 Hours; Wide voltage protection of 160-360v with 2KV surge protection	14	Nos.		
1.4	Supply & installation of Philips or Equivalent led light, recess mounted, Wattage: 7 W ; Operating Voltage:130-360 Volts ;Metal body ; Material: Aluminum, Color: Cool Day Light; Colour Temperatures of 6500K; Shape: Square / Circular	4	Nos.		
1.7	Supply & installation of Philips or Equivalent led light, recess mounted, Wattage: 15 W ; Operating Voltage:130-360 Volts ;Metal body ; Material: Aluminum, Color: Cool Day Light ; Colour Temperatures of 6500K; Shape: Square / Circular	90	Nos.		
1.8	Supply & installation of 2' x 2' LED Full-Glow – RC380G3HL - Philips or Equivalent make led light, recess mounted, Wattage: 32 Watts ; Output- 3400 Lumens; Colour: - Cool Day Light; Colour Temperature: 6500 K; System Efficiency-110; Operating Voltage – 220 -240 V for Branch & ATM.	43	Nos		
2.1	250mm dia wall mounted exhaust fan of decorative plastic body and blade with louvers on the outside (Newtek/Crompton/Approved Equivalent)	6	Nos.		
2.2	Supply & installation Wall mountaing fan 400 mm dia 230 volts A.C. PHILIPS/WIPRO MAKE	33	Nos.		
2.2	Supply & installation 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)	3	Nos.		
	Sub Total				
VI					
1.1	S & I of earth pit comprising of 600mm x 600mmx 3 mm. thick copper plates buried at a minimum depth of 2.5 meter including necessary materials like charcoal, salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement.	2	Nos.		
1.2	Extra for depth beyond 2.5 meter earth pit if required in any condition	10	Mtr.		

1.3	Chemical Earthing using Electrode of size 80 mm dia, 2 meter long connected with 50X6 mm Copper internal strip complete with excavation, civil works, cast iron cover with back fill compound. The voltage between Neutral & Earth not to exceed 2 volts including bore holes wherever required and putting the earth as per requirement.	2	Nos		
2.1	S & I of copper /GI earthing wires/strips in following sizes				
2.2	8 SWG copper bare wire	130	Mtrs		
2.3	12 SWG copper bare wire	0	Mtrs		
2.4	25mm x 3mm thick GI strip	40	Mtrs		
3	S & I of isolated earthing / grounding system for computers etc using insulated green copper earthing wire laid through 20mm PVC conduits from separately made earth pit to the equipment in following sizes				
3.1	6 sq mm copper in 20mm PVC conduit	40	Mtrs		
4	S & I of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and nut bolts studs for clamping the earth leads, all contained in MS/PVC box of size 300mm x 200mm x 50mm deep and having transparent acrylic cover as approved by Bank / Architect.	1	Set		
	Sub Total				
VII					
1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sq mm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia. PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	24	pts		
2	S & I of Philips / Bosch/Ahuja make music speaker flush mounted on the false ceiling with proper clamping arrangement	24	Nos.		
3	S & I of volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches .The size and plate of the regulating knob should match with other switches nearby (MK make)	4	Nos.		
4	S & I of 180 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD Player with FM facility of make Samsung/Onida/LG	1	set		
5	S & I of TV socket point flush mounted on wall / partition including cabling till outside the building with connector	2	No.		
	Sub Total				
IX					
1.0	Supply and fixing the following sizes of PVC medium grade ISI marked conduits (IS : 9537 Part-III) complete with accessories such as bends, junction boxes, pull boxes etc., in recess or on surface including cutting chases in the walls/floors and making good the same complete as required.				
1.1	25 mm dia 2.0mm wall thickness	170	mts		

2.0	Providing and laying Cat 6 cable (Make : Systimax / D-Link) for data / voice / CCTV in existing conduits and providing & terminating with RJ-45 (Krone make) with face plates / I/O Ports in suitable modular / MS box from server / EPABX room to individual work stations and terminating other end with RJ-45 connector including numbering with ferule				
2.1	RJ-45 for data / voice points	40	points		
2.3	Patch Cord of Cat - 6 Cable - 1.5 Mtrs - (Make : Systimax / D-Link) Company Manufactured	40	Nos		
2.4	Patch Cord of Cat - 6 Cable - 1 Mtrs - (Make : Systimax / D-Link) Company Manufactured	40	Nos		
2.5	Supply & fixing 24 Port Jack Panel Make:-CISCO	2	Nos		
2.6	19" Rack 12U with Glass Door , Locking system Make: APW	1	Nos		
2.7	24PORT 10/100Mbps Switch	2	Nos		
3	Providing and laying Cat 5 cable (Make: Systimax / D-Link) for voice in existing conduits for voice and providing & terminating with RJ-11 (Krone make) with face plates / I/O Ports in suitable modular / MS box from server / EPABX room to individual work stations and terminate the other end with RJ-11 connector or on a Crone module with numbering of each cable with Ferule				
3.2	RJ-11 for Voice	41	points		
4.0	Providing, laying and connecting PVC insulated copper telephone cable of following sizes including termination in approved manner.				
4.1	20-pair	100	mtr.		
5.0	Providing and fixing of telephone tag block (Krone) of following sizes housed in GI box with cover of suitable size including termination				
5.1	20 pair	1	No.		
5.2	40 pair	1	No.		
Sub Total					
XI	Inverter Point wiring				
1.0	Point wiring for 15/16 amp socket(FOR INVERTER) outlet with 4.0sq.mm FR PVC insulated single core multistrand copper conductor ISI marked in recess 20 mm dia non metallic PVC flexible conduit with 15/16 Amp, 250 V modular type switch & socket, phenolic laminated sheet suitable size ISI marked MS Box & earthing Point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc as required as per direction of Engineer in charge .(Make of wire Finolex/ L&T/Anchor / Havells/ V guard/HPL, Make of switch & socket, bell push- Anchor/ Havells/ Legrand/ Wipro)	10	No		
2.0	Recessed wiring to submain in 1 x 1.5 sq mm (FOR INVERTER) FR PVC insulated single core multistarnd copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non metallic heavy duty flexible conduit 1.6 mm thick as per direction of Engineer in charge(Make of wire Finolex / L & T / Anchor / Havels/ V guard/HPL, Make of switch & socket, bell push- Anchor/ Havells/ Legrand/ Wipro)	50	Mtr		



3.0	Supply and fixing of 16 Amp Top (for inverter installation)with all accessories and connections as per instruction of Electrical Engineer-in-charg	4	No		
	Sub Total				
	TOTAL FOR ELECTRICAL WORKS				

Place:

Signature & Seal of the Tenderer

Date: