

संदर्भ संख्या /Ref. No: ZO/HGLY/GAD/MISC/2024-25/02

दिनांक /Date- 27/05/2024

To,
Electrical Contractors, A Category,
(Empanelled by Head Office , 01/09/2022 to 31/08/2025).


Sir,

Sub: Invitation of sealed tender for Internal Electrical Work of Mayapur Branch.

We invite **Sealed Tender** for Internal Electrical work of **Mayapur Branch** whose tender document is enclosed.

Last date of submission -18/06/2024 till 1:00 pm
Date of opening of tender -19/06/2024 at 12:00 noon

Regards,


उप अंचल प्रमुख / Deputy Zonal Head
हुगली अंचल कार्यालय / Hooghly Zonal Office



BOQ FOR ELECTRICAL WORKS AT MAYAPUR BRANCH & ATM, UCO BANK

SI No.	Description Of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	MAIN PANEL BOARD				
a	Supply, delivery, installation , testing , commissioning , of L&T indoor wall floor mounted type distribution boards made out of 2 mm thk. CR sheet metal duly acid treated premised & painted with 2 coats of enamel paint compartment arrangement for each equipment & bus bar chamber on the top of the panel running horizontal through out its length duly lamp , vermin proof having provision cable by conduit entry , earthing stud as per specification mentioned below duly factory wired confirming to the relevant ISS & as per special condition of contract , making good the damages M.S. Cubical type Panel board should have hinged door at the front. The panel shall be provided with all accessories & following arrangements complete in all respect & direction of EIC (before fabrication of panel board drawing is to be approved by Engineer-in-charge).				
b	125 Amp TP MCCB 1 no.				
c	0-500V CTs 3 nos.				
d	3 nos. indication lamps with 3 fuses 1 set.				
e	100 A 4P copper bus bar 1 set.				
f	63 A - 4P MCCB for BRANCH 1 set.				
g	63A - 4P MCCB for AC 1 set.				
h	100 A- HRC FSU.with rewirable fuse links for generator 1 no.				
	Outgoing -				
i	100 A 4P Change over switch 1 no.				
j	63A 4P MCB 1 no.				
k	63A DP MCB 1 no.				
	Outgoing -				
l	63A DP MCB for A.C 1 no				
m	63 A DP MCB for U.P.S incomer and outgoing 1 no				
n	40 A DP MCB for LDB / PDB. 40A DP MCB Spare 1 no				
o	32 A DP MCB for Glow sign board (1 spare) 1 no.				
p	VAF Digital meter with CT. 1 no.	set	1		
2	SWITCH NEAR METER				
a	Providing and fixing 100Amp TPN HRC Type main switch in 16 gauge sheet cubicle box. of L/T DH -200 25KA (near meter) complete with incoming and outgoing connections.	set	1		
b	Supply & installation of 2 nos. 32A DP Changeover switch to be fixed and complete with one no.60A rated copper Bus bar for changing supply from one UPS to another with all accessories.	set	1		
3	DISTRIBUTION BOARDS (All MCBs to be "C" series)				
a	Providing and fixing 12 way SPN double door DB for UPS SUPPLY with incomer 1 no. 40 Amps DP MCB controlling 10 Nos. 6/10 Amp SPMCB Complete.	Unit	1.00		
b	Providing and fixing 12 way SPN double door DB for LIGHT POINTS with incomer 1 no. 25 Amps DP MCB controlling 10 Nos. 6/10 Amp SPMCB Complete.	Unit	2.00		
c	Providing and fixing 4 way TPN double door DB for POWER POINTS with incomer 1 no. 40 Amps 10 KA TPN MCB controlling 12 no. 16/20 Amp SPMCB Complete.	Unit	1.00		

Sl No.	Description Of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
d	Providing and fixing 4 way TPN double door DB for AC POINTS with incomer 1 no. 63 Amps 10 KA TPN MCB controlling 12 no. 16/20 Amp SPMCB Complete.	Unit	1.00		0.00
4	UPS INPUT/ OUTPUT				
	63 Amps/40 Amps DP MCB in MS enclosure box	unit	2		
5	CABLES				
a	Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 3.5C x 35 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be for <u>Main switch to Main Panel</u> Including all necessary terminals etc. complete.	r. m.	25.00		
b	Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 4-C x 16 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be for <u>DG to Main Panel</u> Including all necessary terminals etc. complete.	r. m.	25.00		
c	Providing and laying 2 x 6 sq. mm. & 1 x 1.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main Panel to LIGHT DB</u> . Including all necessary terminals etc. complete.	r. m.	35.00		
d	Providing and laying 4 x 6 sq. mm. & 2 x 2.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main Panel to AC DB</u> . Including all necessary terminals etc. complete.	r. m.	20.00		
e	Providing and laying 2 x 4 sq. mm. & 1 x 2.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>AC DB To Starters/Outdoor Units & Glow sign board wiring</u> Including all necessary terminals etc. complete.	r. m.	120.00		
f	Providing and laying 4 x 6 sq. mm. & 2 x 2.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main Panel to POWER DB</u> . Including all necessary terminals etc. complete.	r. m.	20.00		
g	Providing and laying 2 x 2.5 sq. mm. & 1 x 1.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Light DB to Switch Boards & Power DB to Raw Power Point</u> Including all necessary terminals etc. complete.	r. m.	150.00		
h	Providing and laying 4 x 6 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main DB to UPS Input & UPS Output to UPS DB</u> Including all necessary terminals etc. complete.	r. m.	40.00		
i	Providing and laying 2 x 2.5 Sq mm. & 1 x 1.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>UPS DB To Computers</u> . Including all necessary terminals etc. complete.	r. m.	140.00		
6	CABLE TERMINATION				
	Supplying, connecting the end terminations with copper cable lugs, Single Compression Brass Cable Glands, Tapping, Crimping etc. complete.				
a	3.5 core 50 Sq mm Al. Armoured	unit	2.00		

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b	4 core 16 Sq mm Al. Armoured	unit	2.00		
7	EARTHING				
a	Earthing installations as per I.E. rules by making earth stations with 600 mm x 600 mm x 3.15 mm. thick copper plate electrode to be installed such that its top edge shall be at a minimum depth. of 3.0 meter below ground level after preparation of ground with charcoal and salt and connecting the MIP with 25 mm x 6 mm G.I. earth lead-in-strip directly in ground by bolting and then brazing to the copper Plate complete with G.I. bolts of suitable length double nuts and washers including supply and fixing of 50 mm dia. partly perforated G.I. pipe with funnel for watering arrangement. 3.0 m. long with 300 x 300 mm. casting plate connection to be fitted with bitumen, the electrode to be driven under G. L. to an av. depth of 3.15 m. The earthing installation should be provided with 300 mm x 300 mm and 300 mm depth inside dimension masonry inspection pit with C.I. hinged cover having locking arrangements, test link of size 150 mm length x 25 mm x 6 mm copper flat connected to copper earth lead-in-strip and restoring the surfaces duly rammed.	unit	1.00		
b	Providing and fixing Pipe Earthing (IS - 3043) 3.0m. deep with 40 mm. dia. GI pipe With perforations filled with alternate layers of Charcoal and salt. The item includes Funnel on top in brick masonry chamber with CI cover for watering purpose complete.	unit	1.00		
c	Providing and fixing Earth Bus Bar of 25 mm. x 6 mm. x 300 mm. complete with brass nut, bolt, washer & bus insulator.	unit	2.00		
d	Providing and fixing bare Copper Earth Wire 16 guage in pvc conduit in Floor / walls From pipe earthing to Main Panel Board Complete.	r. m.	40.00		
8	POINT WIRING				
	Providing & fixing POINT WIRING for Ceiling and wall lights / fan. The item includes Circuit wiring from DB to the switch board with 2 x 2.5 sq. mm. PVC insulated copper conductor with 1.0 sq. mm. PVC insulated copper conductor for earthing in appropriate size of PVC conduits ISI mark, point wiring to be laid with 2 x 1.5 Sq. mm. PVC insulated copper conductor with all necessary accessories, such as saddles etc. on surface or embedded in wall, chasing the walls and making the surface neat afterwards. The item includes 6 Amp switch with all base plates & cover plates, M.S. box of same make etc. 3 plate ceiling rose to be provided for Exhaust fans complete. Each switch board should have at least 1 no. 5 Amp raw power socket. There will be at least 8 light points to be connected through UPS supply within banking hall area.				
a	Providing and fixing point wiring with same pecifications as MAIN point wiring above : <u>one point to be controlled by one switch.</u>	unit	20.00		
b	Providing and fixing point wiring with same pecifications as MAIN point wiring above : <u>two points to be controlled by one switch.</u>	unit	22.00		
b	Providing and fixing power point for WALL / EXHAUST FAN points with 1 x 2 pin 6Amp socket outlet to be provided at the location of fan	unit	14.00		
c	Providing & fixing Raw Power Point Includes 1 nos. 5 pin 15 AMP socket and 1 no 15 Amp switch etc. complete.	unit	10.00		

Sl No.	Description Of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
d	Providing & fixing Raw Power Point Includes 2 nos. 5 pin 6 AMP socket and 1 no 6 Amp switch etc. complete.	unit	3.00		
e	Providing & fixing Computer Plug Points with 3 Nos 5 pin 6 Amp sockets, 1 Nos 16 amp switch & one indicator lamp, complete with all necessary accessories. The switch and indicator to be located above the counter while sockets to be fixed below the counter.	unit	9.00		
f	Providing and fixing BELL POINTS on wall / partition with 2x1.0 Sq.MM copper conductor with call bell switch (Push Type) including ANCHOR call bell TRESSA Multi Tune Bell complete.	unit	1.00		
g	Providing and fixing Starter for AC consisting of : 15 Amp. Socket for plug, 12-18 Amp. Starter	unit	6.00		
h	Providing and fixing Glow Sign Board point including supply of timer, thro. separate 20 Amp. DP MCB with metal enclosure complete.	unit	2.00		
9	ELECTRICAL FIXTURES				
	Item includes Providing, assembling, fixing, testing & commissioning Following Fixtures including all accessories, lamps & extension chords as maybe necessary complete. All LED / Flurescent fixtures (except down lighters) to be hung from the RCC ceiling by 20 KG grade adjustable GI chain & in NON False ceiling area they are to be hung by appropriate Down Rods.				
a	Providing and Fixing Recessed mounted diffused optics high performance 2' X 2' LED luminaire of HAVELLS or similar with necessary LED lamp. (VENUS NEO Product code : LHEWDRP7PL1W034 with 34w LED 6000K or similar)	unit	17.00		
b	Providing and Fixing Recessed mounted LED spot light of HAVELLS with necessary LED lamp (15W LED 6000K) or similar. (Ceiling cutout ø 155 mm.)	unit	24.00		
c	Providing and Fixing Surface mounted luminaire suitable for HAVELLS or similar : PHOTON PLUS LED TUBELIGHT : product code : LHLDCLEXENL8X018 or similar with Lamp type 18W LED	unit	15.00		
d	Providing and Fixing wall mounted fans 400 mm. sweep	unit	10.00		
e	Providing and Fixing Ceiling fans 1200 mm. sweep	unit	2.00		
f	Supplying & Fixing of exhaust fan heavy duty industrial type Crompton 225 mm sweep with 1400 RPM.	unit	2.00		
10	TELEPHONE CABLING				
a	S//I/T/Commissioning of 2 pair 0.51 sq. mm. telephone unarmoured cable in 32mm PVC pipe. (Make - Finolex / Delton / Polycab)	r. m.	45.00		
b	S//I/T/Commissioning of Telephone point with 1 No. of of RJ-11 socket, 1 Module Plate & Modular Box as per instructions of the Architect/Consultant.	unit	3.00		
c	S//I/T/Commissioning of telephone Junction box 10 pair krone type housed in MS box with Lock & key.	unit	1.00		
11	DATA CABLING				
a	providing and fixing IOU (information outlet unit) of AT & T make including square face plate MS housing box with RJ-45 socket etc complete	unit	10.00		
b	Providing and fixing data points with CAT-6 UTP cable from system room to individual points in 20mm PVC conduit fixed on wall, ceiling, partition etc. complete	r. m.	180.00		
c	Providing and fixing Mounting (PATCH) cords one per port.				
i	1.0 m. long	unit	10.00		

Sl No.	Description Of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
12	Opening AC from existing branch including shifting and installation.	Unit	5.00		
	TOTAL				