



PREMISES, ESTATE & EXPENDITURE DEPARTMENT,
CORPORATE OFFICE, NO: 254-260,
AVVAI SHANMUGAM SALAI,
CHENNAI – 600014.

**TENDER DOCUMENT FOR PROPOSED ELECTRICAL WORKS
FOR SETTING OF HRMS IN INDIAN BANK PREMISES AT 3RD
FLOOR, NO. 7, PRAKASAM ROAD, T NAGAR BRANCH PREMISES,
CHENNAI - 600017**

PART-II PRICE BID

Ref.No: CO:EST:HRMS-03
Date : 01.12.2021

Name of the contractor:
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Last date of submission of tenders	09.12.2021 upto 15.00Hrs. at Indian Bank, Corporate Office, Premises, Estate & Expenditure dept, First Floor, No. 254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014.
Date of opening Tender	09.12.2021 upto 15.30Hrs. at Indian Bank, Corporate Office, Premises, Estate & Expenditure dept, First Floor, No. 254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014.
Cost Of Tender	Free Of Cost.

This Tender document contains 12 pages





ESTIMATION FOR ELECTRICAL WORK FOR HRMS 3rd FLOOR, NO. 7, PRAKASAM ROAD, T NAGAR BRANCH PREMISES, CHENNAI - 600017

1	ELECTRICAL WIRING				
	<i>Electrical Work - POINT WIRING</i>				
(i)	NOTE: 'For all items in schedule 'B' rate includes necessary connected minor civil works including scaffolding if required and necessary supports as required at site. No extra payment shall be made for the same.				
(ii)	Rates of wiring for Light, fan, Plug are inclusive of supply, installation, testing, commissioning.				
Note:					
i)	Unless otherwise specified all the conduiting work to be done in recess				
ii)	Two or more circuit can be drawn in the same conduit, however, all the circuits in the same conduit shall be on the same phase.				
iii)	Circuit wiring and point wiring will be in a separate conduit.				
iv)	Minimum size of conduit will be of 25 mm dia.				





ESTIMATION FOR PROPOSED ELECTRICAL WORKS IN HRMS FOR INDIAN BANK 3RD FLOOR T.NAGAR CHENNAI.					
S.N	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
ELECTRICAL WORKS					
A	MAIN DISRTRIBUTION BOARDS				
1	PANEL BOARD - Supply, installation, testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction panel board floor mounted fabricated with 16swg of CRCA sheet with powder coating, RYB bus-bar chamber, panel sides, upper, lower, and Front doors, back side and compartments, Glance plates, Cable entry Provision at bottom and upper sides with all necessary fixing accessories, arrangements and etc. Cost include wastages, lead, fuse link, lift, transport charges, tools, loading, unloading charges and etc. The panel board shall consists of following items. Incoming: 200A 4P SFU- 1NO, 200A Copper bus bar - RYB - 1 no. Earth and Neutral bar. Outgoings: 100A 4P SFU - 3 NOS (ACs/PDB), 63A 4P SFU - 1 NOS (15KVA UPS), 40A 4P SFU - 2 NOS (6KVA UPS, LDB) Voltmeter, Ammeter, indication lamps and etc.	1	SET		
2	Supplying and Erection of 4W TPN MCB DB with incomer of 1no of 40A 4P MCB and outgoing of 12nos 10A SP MCB's with suitable steel enclosure with all necessary fixing accessories, arrangements and etc. The DB should be IP 43 metallic double door type. Cost include screws, Cutting, plastering and concealed or open in the wall, touch-up plastering, etc. Cost include DB and MCB marking with sticker. for LDB.	1	SET		
3	Supplying and Erection of 4W TPN MCB DB with incomer of 1no of 100A/63A 4P MCB and outgoing of 12nos 10A/20A/25A/32A SP MCB's with suitable steel enclosure with all necessary fixing accessories, arrangements and etc. The DB should be IP 43 metallic double door type. Cost include screws, Cutting, plastering and concealed or open in the wall, touch-up plastering, etc. Cost include DB and MCB marking with sticker. for Office AC/PDB.	1	SET		



4	Supplying and Erection of 6W TPN MCB DB with incomer of 1no of 63A 4P MCB and outgoing of 18nos 10A/20A SP MCB's with suitable steel enclosure with all necessary fixing accessories, arrangements and etc. The DB should be IP 43 metallic double door type. Cost include screws, Cutting, plastering and concealed or open in the wall, touch-up plastering, etc. Cost include DB and MCB marking with sticker. for Ups DB-1.(15KVA UPS)	1	SET		
5	Supplying and Erection of 4W TPN MCB DB with incomer of 1no of 40A 4P MCB and outgoing of 12nos 10A/20A SP MCB's with suitable steel enclosure with all necessary fixing accessories, arrangements and etc. The DB should be IP 43 metallic double door type. Cost include screws, Cutting, plastering and concealed or open in the wall, touch-up plastering, etc. Cost include DB and MCB marking with sticker. for Ups DB-2.(6KVA UPS)	1	SET		
6	Supplying and erection 63A/40A 4P MCB with suitable powder coated steel sheet enclosure with all necessary fixing accessories, arrangements and etc. Cost include screws, Cutting, plastering and concealed or open in the wall and etc.	5	SET		
7	Supplying and erection 63A 2P MCB with suitable powder coated steel sheet enclosure with all necessary fixing accessories, arrangements and etc. Cost include screws, Cutting, plastering and concealed or open in the wall and etc.	1	SET		
PART A. MAIN DISRTRIBUTION BOARDS SUB TOTAL					
B PHASE SHIFTERS					
1	Providing and fixing of 63A Automatic phase shifter 3phase in & 3phase out switch for 15KVA UPS with all necessary fixing accessories, arrangements and etc. Cost include screws, Cutting, plastering and concealed or open in the wall and etc. Cost include Automatic phase shifter marking with sticker. Make of Automatic phase shifter - SWIFT and TRIO.	1	NO		

2	Providing and fixing of 40A Automatic phase shifter 3phase in & 3phase out switch for 6KVA UPS and LDB with all necessary fixing accessories, arrangements and etc. Cost include screws, Cutting, plastering and concealed or open in the wall and etc. Cost include Automatic phase shifter marking with sticker. Make of Automatic phase shifter - SWIFT and TRIO.	2	NOs		
PART B . PHASE SHIFTERS SUB TOTAL					
C POWER CABLE					
1	Supply and laying of 4 Core 16 sq.mm Armoured Aluminium cable with all necessary fixing accessories, arrangements and etc. Cost include all Clamps, screws, junctions, clippings, Cutting, plastering and concealed or open in manner slab/wall, touch-up plastering and etc. Complete as per instructions of the Architect. Note: 1. Before laying the cable contractor should shown the start point number and end point number to the Architect. 2. Fixing to be done after prior approval from the Architect. 3. Extra cable length to be shown by the contractor to the Architect. 4. The contractor has cleared the extra cable material from the site after getting approval from the Architect.	25	RM		
2	Supply and laying of 3.5 Core 35 sq.mm Armoured Aluminium cable with all necessary fixing accessories, arrangements and etc. Cost include all Clamps, screws, junctions, clippings, Cutting, plastering and concealed or open in manner slab/wall, touch-up plastering and etc. Complete as per instructions of the Architect. Note: 1. Before laying the cable contractor should shown the start point number and end point number to the Architect. 2. Fixing to be done after prior approval from the Architect. 3. Extra cable length to be shown by the contractor to the Architect. 4. The contractor has cleared the extra cable material from the site after getting approval from the Architect.	40	RM		
PART C. POWER CABLE SUB TOTAL					
D POWER CABLE END TERMINATION					
1	Supply and laying end termination for 4 Core 16 sq.mm Armoured Aluminium cable. Cost include all necessary hardwares lugs, glands and etc.	4	NOS		

2	Supply and laying end termination for 3.5 Core 35 sq.mm Armoured Aluminium cable. Cost include all necessary hardwares lugs, glands and etc.	2	NOS		
PART D. POWER CABLE END TERMINATION SUB TOTAL					
E	LIGHT POINTS WIRING				
1	Wiring to light points using with 3 runs of 1.5 sqmm FRLS PVC insulated multistraud copper conductor wire with suitable PVC conduit pipe with fixing accessories. The unit rate for switch board and further to point outlet including all hardwares and connector strips. Outlet including all hardware like outlet boxes, switch plates, switch board, switches and wire conduits. Cost include all bends, clamps, screws, junctions, clippings, Cutting, plastering and concealed or open in manner slab/wall/partitions, touch-up plastering and etc. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT. Make of Switch's, socket's & fan regulator's - ANCHOR ROMA.				
	a) One light Controlled by One Switch	30	PTS		
	b) Two Lights Controlled by one Switch	4	PTS		
	c) 6A Switch box Sockets and Switch in the switch board itself	10	PTS		
	d) Ceiling Fan point with Electronic regulator control	8	PTS		
	e) Exhaust fan point/wall mounted fans	16	PTS		
2	Supplying and Laying of 2 runs of 2.5 sqmm FRLS PVC insulated multistraud copper conductor wire with 1 run 1.5 sqmm copper wire as earth wire with suitable PVC conduit pipe with necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits, Cutting, plastering and concealed or open in manner slab/wall/partitions and etc. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT.	800	RM		
3	Supplying and Laying of 2 runs of 4 sqmm FRLS PVC insulated multistraud copper conductor wire with 1 run 2.5 sqmm copper wire as earth wire with suitable conduit pipe with necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, Cutting, plastering wire conduits and concealed or open in manner slab/wall/partitions and etc. for AC wiring. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT.	240	RM		

4	Supplying and Laying of 4 runs of 10 sqmm FRLS PVC insulated multistraud copper conductor wire with 2 runs 4 sqmm copper wire as earth wire with suitable conduit pipe with necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits and concealed or open in manner slab/wall/partitions and etc. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT.	50	RM		
5	Supplying and Laying of 2 runs of 10 sqmm FRLS PVC insulated multistraud copper conductor wire with 1run 4 sqmm copper wire as earth wire with suitable conduit pipe with necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits and concealed or open in manner slab/wall/partitions and etc. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT.	20	RM		
6	Supplying and Laying of 4 runs of 6 sqmm FRLS PVC insulated multistraud copper conductor wire with 2 runs 2.5 sqmm copper wire as earth wire with suitable conduit pipe with necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits and concealed or open in manner slab/wall/partitions and etc. Make of wire's- POLYCAB, ANCHOR, FINOLEX & ORBIT.	30	RM		
PART E. LIGHT POINTS WIRING SUB TOTAL					
F POWER POINTS OUTLETS					
1	Supply and Erection of 5A 3 pin socket 3 in no's and 5A switch 1 in no's for UPS points/raw power points with suitable metal or plastic surface mounted box with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws , internal wiring and etc. Cost include UPS point marking with sticker.	70	SETS		
2	Supply and Erection of 5A 3 pin socket 2 in no's and 5A switch 1 in no's for raw power points with suitable metal or plastic surface mounted box with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws , internal wiring and etc. Cost include UPS point marking with sticker.	50	SETS		

3	Supplying and Erection of 15A 3 pin socket 1 in no's and 15A switch 1 in no's with suitable metal or plastic surface mounted box with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws, internal wiring and etc. Cost include Rawpower point Marking with sticker.	5	SETS		
4	Supplying and Erection of 5A 3 pin socket 1 in no's and 5A switch 1 in no's with suitable metal or plastic surface mounted box with all necessary fixing accessories, arrangements and etc.. Cost include all hardwares, screws, internal wiring and etc. Cost include Rawpower point Marking with sticker.	5	SETS		
5	Supplying and Erection of 5A 3 pin socket 1 in no's for wallmounted fan with suitable metal or plastic surface mounted box with all necessary fixing accessories, arrangements and etc.. Cost include all hardwares, screws, internal wiring and etc. Cost include Marking with sticker.	25	SETS		
6	Supply and fixing of 20A/25A/32A 3 pin metal clad plug and socket with 1 no 20A Sp/ 25A Sp/ 32A Sp MCB with with suitable anodised sheet steel enclosure with fixing accessories etc. Cost include all hardwares, screws, internal wiring and etc. Cost include AC point Marking with sticker.	4	SETS		
PART F. POWER POINTS OUTLETS SUB TOTAL					
G	LIGHT FIXTURES				
1	Supplying and fixing of LED 2'0"x2'0" light fixture with all necessary fixing accessories, arrangements and etc. The size of the fixture as per the manufacturers standards and specifications. Unit – nos. Cost include all necessary accessories like chains, tools, hardwares, lead, lift, wastages, loading, unloading charges, transport and etc.(PHILIPS LED full glow - RC380B LED36S-6500 G5 L60W60 PSD OD)	31	NOS		
2	Supplying and fixing of LED 18W down light with all necessary fixing accessories, arrangements and etc. The size of the fixture as per the manufacturers standards and specifications. Unit – nos. Cost include all necessary accessories like chains, tools, hardwares, lead, lift, wastages, loading, unloading charges, transport and etc. (PHILIPS-DN296B LED20S-6500 PSU WH)	32	NOS		

3	Supplying and Erection of LED Batten 20W fitting to be fixed from ceiling or wall with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws, clamps, lead, lift and etc. Make : PHILIPS "61018 Astra Line 4 feet LED Batten". Complete as per drawings and instructions of the Architect.	2	NOS		
4	Supplying and Erection of LED Batten 9W fitting to be fixed from ceiling or wall with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws, clamps, lead, lift and etc. Make : PHILIPS "61019 Astra Line 2 feet LED Batten". Complete as per drawings and instructions of the Architect.	2	NOS		
5	Providing and fixing of 48" Ceiling fan of approved make to be fixed in ceiling with hanging rods, accessories and electronic regulator with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, hanging rods length as per site requirements, regulator, screws, clamps and etc. Fan make & model to be approved by bank engineer/architect. (Make of ceiling fan-Crompton Creaves.)	2	NOS		
6	Providing and fixing of wall mounted fans of approved make to be fixed in wall or partition with all necessary fixing accessories, arrangements and etc. Cost include all hardwares, screws, clamps and etc. Fan make & model to be approved by bank engineer/architect. (Make of wall mounted fan- Crompton Creaves.)	19	NOS		
PART G. LIGHT FIXTURES SUB TOTAL					
H EARTHING					
1	Galaxy Maintenance Free Earthling Model No: GAL-502 Single Pipe Electrode (47mm dia pipe 2mtr long with moisture booster of 25 kg bag 1 No) with all necessary fixing accessories, arrangements and etc. Cost include 1'0"x1'0"x1'6" brick work chamber and 1'0"x1'0" RCC manhole with handle. Complete as per instructions of the Architect.	1	NO		

2	Supply and Laying of No.8SWG copper wire from Earth pit to UPS/switch Board with all necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits and concealed or open in manner slab/wall/partitions and etc. Complete as per instructions of the Architect.	40	RM		
3	Supply and Laying 10 sq.mm FRLS PVC insulated copper cable and PVC conduits for UPS earth with all necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings, wire conduits and concealed or open in manner slab/wall/partitions and etc. Complete as per instructions of the Architect. Make of wire's-POLYCAB, ANCHOR, FINOLEX & ORBIT.	50	RM		
PART H. EARTHING SUB TOTAL					
I TELECOMMUNICATION					
1	Supply and laying of 2 pair telephone cable telecom box to EPABX system with suitable PVC conduit pipe with all necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings and concealed or open in manner slab/wall/partitions and etc. Make of 2 pair cable- POLYCAB, ANCHOR, FINOLEX & ORBIT.	850	RM		
2	Supply, Installation, Testing and Commisioing of Modular type 1Nos of RJ11 in PVC surface box with suitable Faceplate fixing the same in the wall/partitions with all necessary fixing accessories, arrangements and etc. Make of RJ11 - ANCHOR ROMA.	55	SET		
3	Supply and laying of 50 pair telephone cable krone connector to EPABX system with suitable PVC conduit pipe with all necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings and concealed or open in manner slab/wall/ partitions and etc. Make of 50 pair cable-POLYCAB, ANCHOR, FINOLEX & ORBIT.	30	RM		
4	Supply and Fixing of 50 pair krone connector with enclosure with all necessary fixing accessories, arrangements and etc. Cost include fixing all hardwares and accessories.	2	SET		
PART I. TELECOMMUNICATION SUB TOTAL					

J	COMPUTER / LAN CABLING				
1	Supplying and fixing E-CAT6 cable with PVC conduit pipe from server to each computers including proper termination and marking with tags with all necessary fixing accessories, arrangements and etc. Cost include all bends, clamps, screws, junctions, clippings and concealed or open in manner slab/wall/ partitions and etc. Cost include all accessories like tools, lead, lift, loading, unloading charges, cutting, transport, labour charges, wastages and etc. Make of Cat-6 cable- D-LINK.	2700	RM		
2	Supplying and fixing RJ45 I/O with metal or plastic surface mounting face plate with all necessary fixing accessories, arrangements and etc. Cost include all accessories like tools, lead, lift, loading, unloading charges, cutting, transport, labour charges, wastages and etc. Make of RJ45 - ANCHOR ROMA.	80	SET		
3	Supplying and fixing RJ45 mounting cord length of 7feet. Cost include all accessories. Make of Cat-6 mounting cord- D-LINK.	80	NOS		
4	Supplying and fixing RJ45 mounting cord length of 3feet. Cost include all accessories. Make of Cat-6 mounting cord- D-LINK.	80	NOS		
5	Supply & Installation of 24 Port CAT-6 Switch with all necessary fixing accessories, arrangements and etc. Make of Switch - D-LINK.	5	SET		
6	Supply & Installation of 24 Port CAT- 6 Jack Panel with all necessary fixing accessories, arrangements and etc. Make of Jack panel - D-LINK.	5	SET		
7	Supply, Testing and fixing of 12U Wall Mountable Closed Rack with tinted glass door, lock key and multiple sockets along with the spick card. Cost include mounting charges, screws, hardwares and etc. Cost include all accessories like tools, cutting, transport, labour charges and etc.	2	SET		
	PART J. COMPUTER / LAN CABLING SUB TOTAL				
K	SERVICE				
1	Preparation of As built single line diagram and 3 set A2 size paper print must be submitted.	1	LOT		
	ELECTRICAL WORKS TOTAL				



	ELECTRICAL WORKS TOTAL				
	SUMMARY				
A	MAIN DISRTRIBUTION BOARDS				
B	PHASE SHIFTERS				
C	POWER CABLE				
D	POWER CABLE END TERMINATION				
E	LIGHT POINTS WIRING				
F	POWER POINTS OUTLETS				
G	LIGHT FIXTURES				
H	EARTHING				
I	TELECOMMUNICATION				
J	COMPUTER / LAN CABLING				
K	SERVICE				
	ELECTRICAL WORKS TOTAL				
	Discount(If any) _____ %			(-)	
	GRAND TOTAL				

Total Amount in words:

Rupees.....only

GST (taxes) will be extra

Place:
Date:

Signature & Seal of the Tenderer

