

UNION BANK OF INDIA
REGIONAL OFFICE - DHANBAD
Union Bank Bhawan,
Telephone Exchange Road ,
Purana Bazar, Dhanbad
Jharkhand

**ONLY ENLISTED CONTRACTORS OF UNION BANK OF INDIA WITHIN
JHARKHAND & BIHAR STATE CAN PARTICIPATE**

**PROPOSED INTERNAL ELECTRICAL & AIR CONDITIONING WORKS
FOR CHATRA BRANCH**

Tender documents available from : 21.05.2026 to 01.06.2026

Last Date of submission of Tender : 01.06.2026 at 4.00 pm

Date of opening of Tender : 01.06.2026 at 5.00 pm

Name of the Tenderer :

Address :

Architectural Consultant :-

ARCHITECT



BURMAN ET.AL

164-B, Rash Behari Avenue, Kolkata-700029,

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8800147589.

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UNION BANK OF INDIA
REGIONAL OFFICE - DHANBAD

**PROPOSED INTERNAL ELECTRICAL, LAN
AND AC WORKS
FOR CHATRA BRANCH**

CONDITIONS OF TENDERING

- 1 Notice inviting tendering
- 2 Tender form
- 3 General Conditions Of Contract
- 4 Schedule of Quantities and Specifications

When the work is awarded and the letter of intent issued, these documents shall become an integral part.

- 1a Attested copies of upto date Contractor's Trade License, Income Tax, GST will also have to be submitted along with the Tender, without which the tender will be considered as incomplete and liable to rejection. **Contractor has to submit latest valid electrical license certificate issued by any Govt. Authority.**
- b. **The tender shall remain valid for three months** from the date of opening of the tender.
- c. The tender is to quote his rate in ink in both English figures and in English word.
- d. All corrections in the tender should be initiated by the tender before submission of the tender.
- e. Each page of the tender documents must be signed by the tenderer .All rates and prices quoted shall be in ink only.
- f. Canvassing in any form is strictly prohibited and any tenderer found to have resorted to canvassing should be liable to have his tender rejection summarily.
- g. In the event of the tender being submitted by a firm, it must be signed by a person holding a power of attorney authorizing him to do so, such power of attorney should be produced along with the tender.
- h. **Time** is the essence of this contract and preference is likely to be given to a tender who will be in a position to complete the works in all details within the shortest possible time. **Maximum time permitted is 45 calendar days from the date of issuing Work Order. If the work is not completed within the stipulated period of time an amount of Rs 1500=00(Rupees one thousand five hundred only) to be deducted for each day of delay.**

REGIONAL HEAD

**UNION BANK OF INDIA
REGIONAL OFFICE - DHANBAD**

DETAILED NOTICE INVITING TENDERS

**PROPOSED INTERNAL ELECTRICAL, LAN
AND AC WORKS
FOR CHATRA BRANCH**

1. Sealed tenders in the prescribed form are invited by the **Regional Head of Dhanbad**, from the **enlisted Contractors** of **UNION BANK OF INDIA** within **Jharkhand & Bihar state** on item rate basis for **PROPOSED INTERNAL ELECTRICAL ,AC and LAN WORKS OF CHATRA BRANCH** (existing premises).
2. Tender documents with all relevant papers (**prepared by M/s BURMAN ET.AL**), address enclosed in the drawing, who are the **Architectural Consultant** of this Project) consisting of this Notice, Conditions of Tendering, Tender Form, General Conditions of Contract, Scheduled of Quantities and Specifications.
3. Tender Documents for the work can be downloaded from the Banks website, www.unionbankofindia.com from **21-05-2026** to **01-06-2026**.
4. Tenders should always be placed in sealed covers with the name of work written on the envelope shall be received upto **4.00 p.m** on **21-05-2026** at the **Regional Office, Dhanbad , Union Bank Bhawan, Telephone Exchange Road , Purana Bazar, Dhanbad , Jharkhand** and will be opened on **01-06-2026** at **5.00 p.m.** at the above office in presence of attending tenders or their authorized representative (not more than two at a time). Tender Documents will not be issued on the date fixed for the opening of the Tender and Tender documents will not be issued by post.
5. **Earnest money @ Rs 2%** of the quoted amount to be paid in draft favouring **UNION BANK OF INDIA** payable at Dhanbad , to be paid by the L1 Tenderer .
6. The Bank does not bind itself to accept the lowest tender and reserve the right to split up the order as and when necessary and accept or reject any or all Tenders without assigning any reason whatsoever.

REGIONAL HEAD

TENDER FORM

To

Tender Notice No. : -----

Date -----

Name of work : PROPOSED INTERNAL ELECTRICAL, LAN
AND AC WORKS FOR CHATRA BRANCH

I/We the undersigned have examined the tender documents and the site of works as hereby submit this tender amounting the sum of **Rs.** and should the same be accepted hereby undertake to execute complete and maintain all works as set forth in the schedule of quantities and Specifications in accordance with the conditions of Tendering, General Conditions of Contract, and the rates quoted by us in the aforesaid schedule of quantities all here to annexed or in default thereof to forfeit and pay to **UNION BANK OF INDIA** the sum of money mentioned in the aforesaid Documents.

I/We agree to abide by this Tender for the period of **three months** from the date fixed for opening of the same .

I/We undertake to complete and deliver the whole of the works covered under this tender within a period of **45 Calendar days** from the date of issue of work order.

I/We shall be bound by the terms and conditions of the tender documents and our accepted tender.

Dated

Witness

Signature of Tenderer

Name

Name

Address

Address

GENERAL CONDITIONS OF CONTRACT.

Unless otherwise provided for in the contract Documents, these general conditions shall apply to the work of all the specification attached herewith.

1. The contractor shall provide all the necessary supervision during the execution of the works as long thereafter as the architect may consider necessary (which approval may at any time be withdrawn) is to be constantly on the works and shall give his whole time to the supervision of the same. Such authorized agent or representative shall receive on behalf of the contractor directions and instructions from the Architect or Architect's representatives.
2. The contractor shall employ in and about the execution of the only such persons as are careful skilled and experienced in their trade and calling and the Architect's shall be at liberty to object to and require the contractor to remove from the site any person employed by the contractor in or about the execution of the work who in the opinion of the Architect misconduct's himself or is incompetent or negligent in the proper performance of his duties and such persons shall not be again employed upon the works without permission of the Architect.
3. The contractor shall inspect and examine the site and its surrounding and shall satisfy himself before the submission of his tender as to the nature of the site, the quantities of the nature of the work and materials necessary for the completion of the works and in general shall obtain all necessary information's like risks contingencies which may influence or effect his tender.
4. Rate quoted shall cover in all the items like transport, octroi, value added tax, incidental Charges, duties, ,any other statutory govt. taxes, etc. for completing the works. No claim will be entertained by the bank due to any fluctuation in the rate of labour, material, Freights, taxes, duties etc. at any stage.
The rate quoted will be firm during the entire period of work. **Only GST will be paid by bank as per govt. laws. Tenderer must have valid GST registration no.**
The contractor has to arrange photo passes in prescribed Proforma for the man working in the site. The contractor has to pay all legal dues to the workman engaged by him during the work as per law in force.
Contractor labour (Regulation & Allowance 1970, P.P.Act 1952, Bonus Act 1965, Est. Act 1972, Gratuity Act 1972, and latest amended Acts are to be complied to the labourers for the execution of the work.
5. If the contractor fails to pay legal dues to labour or any workmen, bank will reserve the right to deduct such due, from the final bill of the contractor and arrange for disbursement to the concerned labour or workmen.
6. Work has to be carried out at the site without affecting the normal activities of the Bank . The contractor will be responsible for any damage caused during the period of work and has to pay damage.

7. **Payment upon the Architect's Certificates** be made by **UNION BANK OF INDIA** to the contractor after such certificate has been delivered to the Regional Head.
8. If the contractor does not complete the work within the stipulated time, the contractor **Rs 1500. 00** for each day of delay.
9. Material and workmanship shall confirm to relevant ISI specification. Contractor has to follow the instruction of the Architect or this authorized representatives during the period of work.
10. The quantities given in the schedule are approximate and may vary as per requirement of the site. Payment shall be made on the basis of actual measurement of the work to be certified by Architect.. Measurement shall be made as per relevant IS code. **No discounts are allowed on the overall amount at the end. Any discount to be given in the item wise rate only.**
11. **MAXIMUM** time to complete is **45** Calendar days from the date of issue of work order.
12. The contractor will get the bill amount after completion of work only.
No advance money will be given prior to the start of work. or dumping materials at site.
13. The contractor has to clear all the materials, tools, tackles, scaffoldings etc. after completion of work without any extra charge.
14. The Bank shall not be liable for or in respect of any damage compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor and the contractor shall indemnify and keep indemnified the bank against all such damages and compensation(save and expect as aforesaid) and against all claims, demands, proceeding costs, charges and expenses in respect thereof or in relation thereto.
15. Contractor has to submit the Earthing Report Test and other Electrical Audit report certificate of the branch along with the final Electrical Circuit Diagram during the submission of final bill, to be issued by an Electrical Engineer having valid Electrical license of any Govt. authority, without any extra charge. **Without submission of these reports no payment will be made.**
16. **The succesful Tenderer has to give 2% of the quoted amount , in the form of draft , favouring Union Bank of India, payable at Dhanbad, before the work is awarded, as Earnest Money , which will be released , without interest at the end of final bill payment . 10% of the final executed bill amount will be deducted as a Security money which will be released after 1 calendar year from the date of payment of final bill.**
17. If the quality of work is not upto the standard or not satisfactory , or not supplying materials as specified in the tender , an amount of 15% will be deducted from the final bill , without any explanation.

SIGNATURE OF TENDERER

LIST OF APPROVED BRAND OF ELECTRICAL MATERIALS FOR UNION BANK OF INDIA

MCCB / MCB	LEGRAND / ABB / SIEMENS
DATA CABLE	LUCENT / D-LINK
VOICE CABLE	LUCENT / D-LINK
PVC PIPE & ACCESSORIES (MEDIUM)	PRESTO-PLUS / SUPREME / FINOLEX
CABLE SOCKET	DOWELL'S / 3D
CHANGE OVER SWITCH	LEGRAND / SIEMENS / ABB
SMOKE DETECTOR	HONEYWELL / JHONSON / SIEMENS
TPN & SPN Switch fuse unit with HRC fuse	ABB / MDS LEGRAND / SIEMENS
PVC insulated XLPE aluminium /copper Conductor armoured MV cables	KEI / POLYCAB / FINOLEX
1100 V grade PVC /XLPE insulated Steel armoured and overall PVC sheathed	POLYCAB / MESCAB / BONTON
11KV aluminium cable	POLYCAB / NICCO
ELECTRONIC DIGITAL METER (A/V/PF/Hz /KW /KWH) with LED display	ABB / SCHNEIDER ELECTRIC
CO-AXIAL CABLE	BELDON / COMM-SCOPE
TELEPHONE	FINOLEX / D-LINK / DELTA
CABLE GLANDS double compression With Earthing links	COMET / COSMOS / JAISON
PVC insulated copper Conductor stranded flexible wires	KEI / POLYCAB / FINOLEX
6/16 A SWITCH, SOCKET ,TELEPHONE SOCKET, ELECTRONIC REGULATOR / DIMMER	MDS LEGRAND / ABB / CRABTREE
TIMER SWITCH	SIEMENS / ABB / LEGRAND
SELECTOR SWITCH /TOGGLE SWITCH	SIEMENS / KAYCEE / SALZER

INDUSTRIAL SOCKET / PLUG

Metal clad -

Splash proof --

CALL BELL

FANS (Ceiling / exhaust / wall mounted)

INDICATING LAMPS (LED type / push button)

DOL STARTER

CURRENT TRANSFORMER

POWER / AUX. CONTACTOR

OVERLOAD RELAYS WITH BUILT IN
SINGLE PHASE PREVENTER

LED LIGHT FITTINGS / FIXTURES / BULBS
(minimum 3 yrs guarantee period)

AIR CONDITIONERS (Hi-Wall Split AC)
(Minimum 3 STAR RATED -100% Copper)

SIEMENS / LEGRAND / MDS

CLIPSAL / MDS LEGRAND / SCHNEIDER ELECTRIC

BAJAJ / ANCHOR

HAVELLS / POLAR

L&T / SIEMENS / SCHNEIDER ELECTRIC

SIEMENS / L& T / INDO-ASIAN

L& T , KUPPA , KAYCEE

L&T / SIEMENS / SCHNEIDER ELECTRIC

L&T / SIEMENS / SCHNEIDER ELECTRIC

PHILIPS / PANASONIC / HAVELLS

VOLTAS/HITACHI / CARRIER

BUDGETARY ESTIMATION OF ELECTRICAL WORK

Name of work: UNION BANK OF INDIA, CHATRA BRANCH

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
A.	POINTS & WIRING				
1	Supply,laying, connection &testing of light, fan point, wiring by 2x1.5mmsq(2x3/.029) + 1x1mmsq PVC insulated copper flexiable 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 flexiable/PVC flexiable 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 .				
a)	Lighting point complete with modular type switch, plate, M.S. conceal box.				
	Point - 1 Light point control by 01 switch.	20	Nos		
	Point - 2 Light point control by 01 switch.	18	Nos		
	Point - 3 Light point control by 01 switch.	2	No.		
	Point - 4 Light point control by 01 switch.	0	No.		
b)	Exhust fan point same as item No. 1complete with modular type switch plate &MS conceal box & 3 pin ceiling rose.	3	Nos		
c)	Wall bracket fan point as above complete with modular type switch,plate & M.S. conceal box. Including one 2pin plug socket,front plate & conceal box at fan end.	10	Nos		
d)	48" dia ceiling fan point as above complete with modular type switch,plate & M.S. conceal box. Including one 2pin plug socket,front plate & conceal box at fan end.	2	Nos		
e)	Call bell point same as as bove complete with modular type push switch,plate & M.S. conceal box with buzzer type bell.	1	No.		
2	Supply Laying of Circuit line2x2.5mmsq +1x1mmsq PVC insulated copper wire form MCB DB(LDB) to lighting SB & Raw power plug point (6Amps)rest are same as item no.1.3 light board or 6 amps plug connected from one circuite.	226	Mts		

3. a)	Supply Fixing & connection of modular type 6 amps Plug switch complete with Ms box Socket to fixed above table. 03 nos plug can be connected from 01 circuite	10	No.		
b)	Same as above but 16 Amps 6pin socket with 16amps switch for raw power point. (01 Nos plug connected from one	6	No.		
SL.	PARTICULAR				
4	SUPPLY FIXING & CONNECTION LIGHT FITTINGS / FANS :				
A	Recess mounted 40 watt LED PHILIPS/ HAVELS MAKE FITTING 2'-0"X2'-0"	14	Nos.		
B	PHILIPS/ HAVELS make 1x40 watt Tubelight fittingswith truelite with both end cap white	6	Nos.		
C	Recess mounted 18 watt LED PHILIPS/ HAVELS MAKE	24	Nos		
D	225 mm dia heavey duty Exhust fan 230 volt A.C. (EPC / PHILIPS make).	2	Nos		
E	Wall mountaing fan 400 mm dia 230 volt A.C.	10	Nos.		
F	48" CEILING FAN WHITE COLOUR (ORIENT/PHILIPS/H	2	Nos.		
G	with both INDUSTRIAL TYPE FIXED DIRECT ON TRUE CEILING.	0	Nos		
H	PHILIPS/ HAVELS make 1x40 watt 2' lenthTubelight fittingswith truelite with both end cap white	2	Nos.		
5	UPS WIRING :				
a)	Supply fixing & connection of UPS circuite line with 2x2.5+1x1.5mmsq through rigid PVC conduite 20mmdia 1.6 mm wall tickness, with ISI mark, to lay from UPS MCB DB to plug point board.rest same as item no.1 Two nos point to be connected from One circuite .	222	Mts		
b)	Supply fixing & connection of UPS circuite line with 16 sqmm (approved make) wire to be connected from main to UPS for use UPS charging purpose only. Connection must through with MCB .	27	Mts		
c)	Suppy fixing of 2x6Amps 5 pin socket + 1x16 Amps 6 pin socket in single board (under table) + 1x16 A switch in another board above table as per direction.	23	Set		
d)	Same as above but 3x6/16, 6pin socket with switch to provide near HUB rack, are to be connected from UPS power.	2	Set		
e)	Supply laying & connection of UPS incomming power linewith 2x6mmsq +1x2.5 PVC insulated copper wire rest same as item no item no. 1 from PDB to UPS incomming	54	mtr		
f)	Supply installation of UPS incomming 63Amps DP MCB with orignal housing of Legrand make.	4	no		

	Supply installation and termination of UPS outgoing power distribution system with 10+2Way SPN DB comprising 8x10Amps SP MCB & 40 Amps DP MCB as main	4	no		
6	LAYING OF CABLE :				
a)	Supply laying fixing main power with 50 mm sq 3.5 core PVC insulated, PVC sheathed Alu. Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI. wire as running earth.	26	Mts.		
b)	End termination of 50 mmsq 3.5 Core armoured cable, complete with brass cable gland, Alu. Lug, PVC tape.	8	End		
7	MAIN ELECTRICAL Cubical type panel.				
7.1	MAIN VTPN DB				
	Supplying, installing, testing & commissioning of 24 Slots, Vertical busbar, MCB type Power Distribution Board (MAIN VTPN DB), flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring complete with earthing lugs housing following switchgears.				
	1 no., 125A, 4P MCCB as incomer				
	4 no., 63/40A, TP MCB				
	8 no., 40/32/25 A SP MCB				
	6 nos, 20/16A, SP, MCB outgoing	1.00	SET		
i	125 amps 4P CHANGE OVERSWITCH ON LOAD TYPE in sheet steel enclosure complete with all mounting accessories before lighting DB with necessary cable jointing adaptor box	1.00	No		
ii	32/25A roll socket complete with 32/25/16/10 amps DPMCB with 3 pin metal clad socket - waterproof tight (IP 65) for wall	-	Nos		
iii	40A/32A DP MCB in sheet steel enclosure complete with all mounting accessories for UPS & others	2.00	Nos		
	Providing and Supplying 40 A TP MCB as a master Switch to switch off all the LDB Loads, located at the Entrance of the	1.00	Nos.		
7.C	DISTRIBUTION BOARDS				
	Supply, installation, testing & commissioning of Distribution Boards surface / flush mounted with Double door containing MCB/ELMCB as incomer and SPMCB as outgoing. All MCBs are of 10KA breaking capacity and ELMCBs/RCCB should be of 30mA/100 MA sensivity. The DB shall have appropriate no. of top and bottom knock outs for outgoing circuits and shall be complete with necessary busbars, interconnection terminals and earth studs. All terminations in DB shall be complete with ferulling, dressing and all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant. For UPS DB MCB shall be 'D' type and other MCBs shall be 'C'				
i	Lighting & power Distribution Board -	1.00	No		
	12 way TPN DB				
	Incomer 40A 4P MCB C TYPE + elcb 30mA				
	Outgoings : 6/10 SP MCB, 'C' Type - 36 Nos				

ii	Power Distribution Board (ATM ROOM)	1.00	No		
	4 way TPN DB				
	Incomer:40A 4PMCB+ ELCB 100 ma				
	Outgoings : 32 A SP MCB - 2 Nos ; 16/20 SP MCB, 'C' Type -				
iii	UPS Power Distribution Board -(FOR 3KVA UPS)	1.00	No		
	12 way SPN DB				
	Incomer:40A DP MCB, 'D' Type				
	Outgoings :16/10 SP MCB, 'D' Type – 10Nos				
iv	UPS Power Distribution Board - UPS DB-2KVA-ATM)	1.00	No		
	6 way SPN DB				
	Incomer20A DP MCB, 'D' Type				
	Outgoings :16/20 SP MCB, 'D' Type - 4 Nos				
8	EARTHING STATION :				
a)	Earthing installation as per I.E. rule conforming to IS 3043-1987 or its latest amendent by making earth station with 600x600x3mm(mini-mun) thick copper plate electrode to be installed such that is top edge shall be at a minimum depth of 3.3mts below ground level after preparation of ground with charcoal, sand ,& salt, connecting the 25x3mm thick copper lead in strip (upto 10 mts length) by bolting and brazing to the copper plate complete with Brass bolt of suitable length double nuts & washer including supply & fixing of 50mm dia 2.3Mts long partly perforated G.I. Pipe with funnel for watering arragment. N.B :- <u>The Copper plate to be buried under 3.3Mts depth from ground level, including C.I. Pit 300x300mm with necessary brick</u>	2	Set		
b)	<u>wall (For UPS earthing).</u> SpikeEarthing with G.I. Electode 3mts. Longx50 mm dia (Class - B) including accessories and providing masonry enclosure with cover 300x300mm plate having locking arrangement and watering funnel Etc. with charcoal, sand & salt at alternate layer as required for electrical panal earthing.	2	No.		
c)	(For main electrical panel earthing.)	44	Mts		

d)	Supply laying 1x8SWG copper bear wire from earth spike to main panel.(Electrolite wire) Do but with 1x16mmsq insulated copper wire from earth spike to UPS earth bus bar through PVC regid 20mmdia ISI mark.	70	Mts		
9	A/C. electrification :-				
a)	Supply laying & connection of A/C. line for 1.5 / ITR A/C. window / splite with 2x4 + 1x2.5 mmsq through Regid PVC conduite rest same item no 1.	118	Mts		
b)	S/Fixing AC Box as per company specification with 25 Amp SPMCB with 25AMP Socket	7	Nos		
10	Out door type glow sgn board wiring :-				
a)	Supply laying of main line with 2x2.5 + 1x1.5 mmsq through MS conduite from main panel to glow sign board.	22	Mts		
b)	Supply installation of 16 amps DP MCB at main entrance Glow sign board WITH TIMMER MDS MAKE	1	Set		
11	Supply fixing of 100Amps TPN HRC type SFU at SEB for main incomming on MS angle. frame & 02 nos Cable end box including connection.	1	No.		
12	Gen set wiring :-				
a)	Supply laying fixing main power with 3.5 core 50Sq.mm PVC insulated,PVC sheathed Alu. Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI.wire as running earth.	17	Mts		
b)	End termination of 3.5 core 50 Sq.mm armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	4	End		
13	LAN WORK				
D	Data /Voice Network System				
1	Supply & Installation of cat - 6 Data Cable	366.00	Mtr		
2	RJ - 45 Data Socket With Plate	9.00	Nos		
2	RJ - 11 Voice Socket	3.00	Nos		
4	Supply & Installation of Voice Cable - 4 pair Telephone Cable un armoured PVC Sheated .	78.00	Mtr		
5	10 Pair Tag Block Crome type on MS box	2.00	Nos		
6	P/F 9U Rack	1.00	Nos		
7	EPABX Box	-	Nos		
8	Patch code-3 Meter	9.00	Nos		
9	Patch code- 1.5 Meter(inside rack to connect router to patch	9.00	Nos		
10	24 Port Switch	-	Nos		
11	24 Port Jack Panel	1.00	Nos		
	TOTAL ELECTRICAL COST				

BUDGETARY ESTIMATION OF AC WORK

Name of work: UNION BANK, CHATRA BRANCH

Note : For any make, if OEM doesn't has specific star rating for the product but that product has equivalent energy saving as compared to the star rating, then vendor shall mentioned the same against the model number.

Sr. No	Particulars	Product Model No.
1.	3.0 TR Ceiling Suspended Cassette Unit 5 Star Inverter Model or equivalent	5 STAR INVERTER
2.	2.0 TR Ceiling Suspended Cassette Unit 5 Star Inverter Model or equivalent	5 STAR INVERTER
3	1.5 TR Ceiling Suspended Cassetter Unit 5 Star Inverter Model or Equivalent	5 STAR INVERTER
3.	2.0 TR Wall mounted Split Unit 5 Star Inverter Model	5 STAR INVERTER
4.	1.5 TR Wall mounted Split Unit 5 Star Inverter Model	5 STAR INVERTER
5.	1 TR Wall mounted Split Unit 5 Star Inverter Model	5 STAR INVERTER

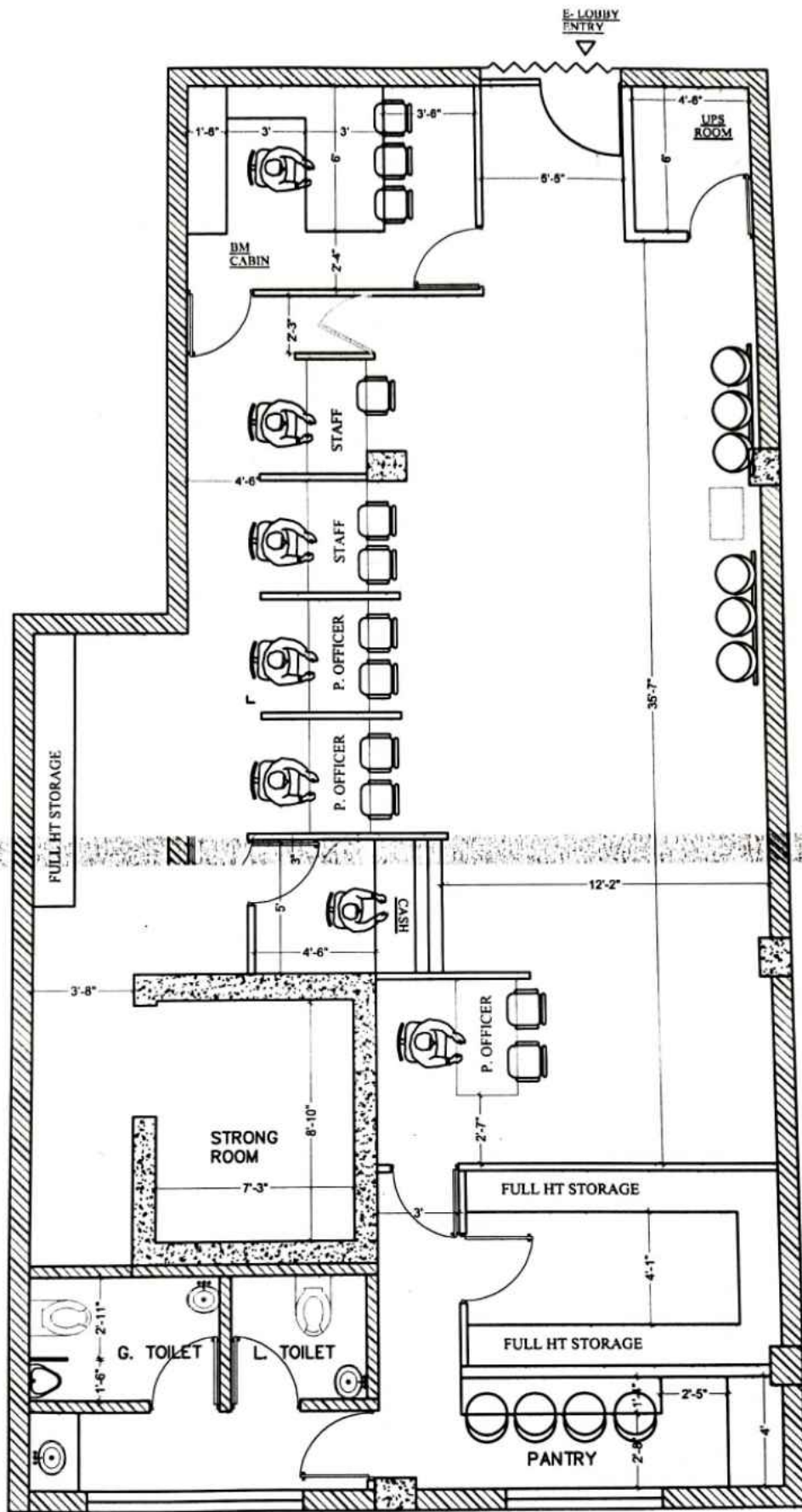
AIR-CONDITIONING WORKS :

Air-conditioning System (Inverter Model/ 5 Star - Wall mounted Split Unit/ Ceiling Suspended Cassette unit)
 Equipment Make – Voltas/LG/Blue star/Daikin/Carrier/Mitsubishi/GE/- 5 star split & 5 star or Equivalent energy saving latest model – cassette (inverter units) with copper condenser
 All the work of Drain pipe/copper pipe/cable shall be properly supported by clamps from the slab.

Sr. No	SPLIT TYPE AIR CONDITIONERS				
A.	PART -A				
	HIGH SIDE WORK				
	Description	Unit	Quantity	Rate	Amount
1	Supplying, erection, testing and commissioning following wall mounted Split/ Roof mounted cassette units of (Toshiba/ Mitsubhishi/ Hitachi/ Daikin/LG/Bluestar/ Carrier/ Voltas) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with (evaporator coil – copper only) , fan and fan motor, machine control panel improved Refrigerant Joints, .Air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor or scroll compressor. Compressor unit operating on R-22/ R-410 . All complete as per drawing, approval and instructions of the Employer (Rates to be inclusive of Copper refrigerant pipe with insulation and Drain pipe up to 5 Mtr. length). Rate should inclusive of instaletation.				
a	1.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	1		
b	1.5 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	4		

c	2 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0		
d	1.5 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer (Three phase). (5 star or Equivalent energy saving latest model Inverter Type)	Nos	0		
e	2.0 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer (Three phase). (5 star or Equivalent energy saving latest model Inverter Type)	Nos.	0		
f	3.0 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer (Three phase).(5 star or Equivalent energy saving latest model Inverter Type)				
PART A –HIGH SIDE WORK SUB TOTAL AMOUNT					
B. PART –B					
LOW SIDE WORK					
1	EXTRA REFRIGERANT PIPING				
	Supplying and laying of Extra copper refrigerant piping with nitrile				
a	For 1.0 T Split unit	Mtr.	18		
b	For 1.5 T Split unit	Mtr.	35		
c	For 2.0 T Split Unit	Mtr.	0		
d	For 1.5 T Cassette Unit	Mtr.	0		
e	For 2.0 T Cassette Unit	Mtr.	0		
f	For 3.0 T Cassette Unit	Mtr.	0		
2	DRAIN PIPING				
	Providing and fixing drain piping up to drain as directed by the				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	76		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	0		
c	40mm dia PVC drain pipe for Cassette AC	Mtr	0		
3	AUTOMATIC VOLTAGE CONTROLLER				
	Stabilizer shall be Automatic version with copper coil transformer and the voltage selection range shall be minimum depending on lowest peak recorded average in a month. Precise output voltage range (130V-170V to 240V -270 V). Ensure the rating of Stabilizer shall be in accordance with max				
	Providing and fixing Stabilizer with 3-4 step relay and input voltage				
a	5 KVA (For 3.0/ 2.0 TR Split AC)	Nos.	0		
b	4 KVA (For 1.5/ 2.0 TR Split AC)	Nos.	4		
c	3 KVA (For 1.0/ 1.5 TR Split AC)	Nos.	1		
4	AIR-CONDITIONERS STAND				
1.	MS-STAND -Providing and fixing of lockable caging for outdoor unit				

a	For 1.0 TR Hi Wall split units	Nos.	1		
b	For 1.5TR Hi Wall split units	Nos.	4		
c	For 2.0 TR Hi Wall split units	Nos.	0		
d	For 2.0 TR ceiling mounted cassette unit	Nos.	0		
e	For 3.0 TR ceiling mounted cassette unit	Nos.	0		
2. Powder coated readymade stands					
	For 1.0 TR Hi Wall split units	Nos.			
	For 1.5TR Hi Wall split units	Nos.			
	For 2.0 TR Hi Wall split units	Nos.			
	For 2.0 TR ceiling mounted cassette unit	Nos.			
	For 3.0 TR ceiling mounted cassette unit	Nos.			
5 ELECTRICAL CABLES					
	Suitable IS/BIS standard Cable of 1.1-2.2 KV, Multi strand, FRLS 2- 4				
a	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.0 TR/ 1.5/2.0 TR Split type AC.	Mtr.			
b	Supplying and laying of Extra Electrical interconnecting control	Mtr.	12		
6 TIMER					
a	Supplying, installation and commissioning of automatic 24 HRS.	Nos.	1		
7 CORE CUTTING					
a	Core cutting member in Non RCC	Mtr.	3		
PART B –LOW SIDE WORK SUB TOTAL AMOUNT					
GRAND TOTAL (PART A + PART B) INCLUDING GST					



PROJECT:-
PROPOSED FURNITURE LAYOUT
PLAN FOR UNION BANK OF INDIA
CHATRA BRANCH

SHEET TITLE:
PROPOSED LAYOUT PLAN

DATE:
 11.12.2013

DESIGNER:
 ARCH/AB

CHECKED:
 SUDHA

SCALE:
 1/4"



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