

### Regional Office Samastipur

1<sup>st</sup> floor, Panchawati Complex, Mohanpur Road, Samastipur - 848101  
 Telephone: 06274-225414, email -pssrosamastipur@unionbankofindia.com

**Subject: Uploading of BOQ & Tender Document for Electrical work of Premises of Kishunpur Baikunth (Warisnagar) Branch on Bank's and Govt. website**

Eligibility	<b><u>Only Empanelled vendors of Regional Office, Samastipur can apply.</u></b>
Earnest Money Deposit	Rs. 8,000/- for Electrical work of Kishunpur Baikunth (Warisnagar) Branch by Demand Draft payable at Samastipur and drawn in favor of Union Bank of India.
Document cost	Rs. 500
Period of Work Completion	21 days
Duration of Tender	21 days
Date of Issue of Tender	From 06.04.2022 to 26.04.2022 during office hours.
Last date of submission of tender	Up to 02:00 PM on 26.04.2022.
Date & Time of opening of Tender	04:00 PM on 26.04.2022.
Details of Architect	M/s Artcon Design Cosultants, G-04, Laxmi Palace, Mitra Compound, Boring Road, Patna 800001

**Submit Application/ Bid for Furnishing work in sealed envelope with complete tender document.**

**Dy. Regional Head**



## Regional Office Samastipur

1<sup>st</sup> floor, Panchawati Complex, Mohanpur Road, Samastipur - 848101  
Telephone: 06274-225414, email -pssrosamastipur@unionbankofindia.com

## Invitation to Tenderer

Instruction to Tenderers

and

General Conditions of Contract

for

## **Interior Electrification Work**

at premises of

Union Bank of India, Kishunpur Baikunth (Warisnagar) Branch

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9. Electrical Work Layout

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## Tender Notice

To,

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(Name & Address of the Contractor)

Dear Sir (s)

**Subject- Electrical Work of Premises of Union Bank of India, Kishunpur Baikunth  
(Warisnagar) Branch**

You are requested to submit your tender for the above mentioned work for which schedule of quantities, general conditions, special conditions/ additional conditions can be had from the office of The Regional Head, Union Bank of India, Regional Office Samastipur, 1st Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) during working hours.

Sealed tenders accompanied by bank Demand Draft for Rs.8,000/- as Earnest Money in favour of Union Bank of India payable at Samastipur should reach this office on or before 2:00 PM on dated 26.04.2022 in sealed cover. The tenders shall be opened on 26.04.2022 at 04:00 PM. The tenders received late on account of any reason whatsoever shall not be entertained.

The tender shall be valid for a period of not less than 60 days of opening of tender.

Time of Completion: 21 days (From date of award of work)

The Union Bank of India, Regional Office Samastipur shall not be bound to accept the lowest tender & reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.

Yours' faithfully,

(Seal & Signature for Union Bank of India, Regional Office Samastipur (Bihar))

## Letter Submitting Tender

To,

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Dear Sir.

With reference to the tender invited by you for the Electrical work of premises of Union Bank of India, Kishunpur Baikunth (Warisnagar) Branch, (Bihar) under Samastipur region.

I/ We do hereby offer to execute the work under contract at the respective rates mentioned in the Schedule of quantities. I/We have seen the site, understood the general conditions of contract, schedule of quantities etc.

I /We agree to execute the work as per specification, general conditions of contract, special conditions, additional conditions, schedule of quantities etc.

I /We have deposited earnest money Rs.6,000/- by demand draft which amount is not to bear any interest. I/We do hereby agree that this sum shall be forfeited by you in the event our tender is accepted and I/We fail to execute the contract when called upon to do so.

I /We understanding that you are not bound to accept the lowest or any tender that you receive

Yours faithfully,

(Seal & Signature of Contractor)

1) Name of Partner (s) of the firm.

2) Name of banker

3) Demand Draft No. \_\_\_\_\_ Dated \_\_\_\_\_ Tender submitted on  
\_\_\_\_\_ before \_\_\_\_\_ P.M.

Specimen copy of Agreement

(Subject to change in order to availability from Central Office)

**For works exceeding Rs.10.00 Lac agreement should be drawn on stamp paper.**

Articles of Agreement:

Agreement made at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ between Union Bank of India, Regional Office, Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) herein referred to as the successful tender/contractor which expression shall include his heirs, executors, administrators and assigns of the order part. Whereas Union Bank of India, Regional Office Samastipur, 1<sup>ST</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) is desirous of carrying out of **the Electrical work of premises of Union Bank of India, Kishunpur Baikunth (Warisnagar) Branch, (Bihar)** and has caused specification etc. describing the work to be done as per schedule of quantities along with the general conditions of contract, special condition additional conditions etc. and whereas the contractor has agreed to execute the work described in said priced schedule of quantities, general conditions of contract, special condition, additional condition at the respective rates mentioned in the priced schedule of quantities attached.

Whereas the contractor has deposited Rs.8,000/- with the Union Bank of India, Regional Office 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) as earnest money for due performance of the agreement.

Now it is hereby agreed as follows:

1. In consideration of the payment to be made to the contractor as herein provided he shall upon and subject to the said conditions execute and complete the work as per the said conditions and priced schedule of quantities.
2. The Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) shall pay the contractor such sums as shall become payable hereunder at the times and in manner specified in the conditions.
3. The said conditions shall be read and form part of the agreement and the parties hereto shall respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively on such conditions contained.
4. All disputes arising out of in any way connected with this agreement and the parties hereto shall respectively abide by and submit themselves to the conditions and stipulations and perform the agreement shall be deemed to have arisen in \_\_\_\_\_ and only the Court / Arbitrator in \_\_\_\_\_ Shall have jurisdiction determine the same.
5. The several parts of this contract have read to us and fully understood by us.

(Witness)

Union Bank of India, Regional Office Samastipur

(Contractor)

## **General Conditions**

1. Sealed tenders should be addressed to The Regional Head, Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and superscribed **Name of Work - Electrical Works at Premises of Union Bank of India, Kishunpur Baikunth (Warisnagar) Branch**, and should reach the office before 2:00 PM on 26.04.2022.
2. **Duration of Tender from 06.04.2022 to 26.04.2022 and last date for submission of tender on 26.04.2022 till 2:00 PM. No tenders shall be received after 2:00 P.M on 26.04.2022 and the tenders shall be opened on 26.04.2022 at 04:00 P.M. unless otherwise informed.**
3. Any clarification (in writing) whatsoever shall be sought from the Architect, minimum two days before the tender submission date.
4. The tender shall remain valid for a period of 2 months from the date of opening of tenders Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and reserves the right to accept or reject any or all the tenders without assigning any reason to do so.
5. At the time of submission, every tender must be accompanied by a Demand Draft of Rs.8,000/- in favour of Union Bank of India, Regional Office Samastipur and as Earnest Money Deposit and No interest shall be paid on earnest money. Any tender which is not accompanied by the earnest money shall be summarily rejected. Firms registered with National Small Industries Corporation (NSIC) submitting valid proof documents would be exempted from payment of Earnest Money Deposit.
6. The tender should quote the rates in figures as well as in words.
7. All erasures and alterations made while filling the tender must be attested by initials of Tenderer. Overwriting of the figures is not permitted.
8. The earnest money deposit of unsuccessful tenders shall be returned after the tender is decided or on expiry of validity period.
9. The earnest money of the successful tender shall be adjusted in the initial security deposit.
10. The Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and reserved right to reject any or all the tenders accept part of any tender or entrust the entire work to any contractor or divide the work to more than one contractor (item wise) without assigning any reason or giving any explanation. The rates quoted by the contractor shall hold good for this bifurcation and no compensation shall be paid on this account.
11. Joint tenders shall not be considered.

12. On receipt of intimation from the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and of the acceptance of his tender the Tenderer within 3-days should submit his acceptance of the work order. If the successful Tenderer fails to undertake the work, the earnest money deposited by him shall be forfeited and acceptance of his tender may be withdrawn.
13. The rates quoted in the tender shall include all charges of shifting of furniture, scaffolding, ladder, lift up and down mechanical transportation, loading, unloading, any or special tools and plants railway freight, labor taxes etc. It shall also take care other taxes of expenditure for carrying out the work. The rate quoted in the tender shall also include for the charges for carrying out various types of laboratory / site tests for different types of materials.
14. The Contractor shall arrange water and electricity for completing the work.
15. No escalation in rates shall be allowed under any circumstances.
16. The Successful Tenderer is bound to carry out entire work within the period stipulated in the Appendix. The Tenderer shall have to pay liquidated damages for non completion of job within stipulated period at the rate of Rs.1,000/- per day for the first week and Rs.2000/- per day after that, with a maximum limit of 5% of the total contract value.
17. The Liquidated damages as mentioned above may not be enforced if the contractor applies for extension of time mentioned the reasons for extension. Extension of time in days shall be granted by the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and if it is proved that contractor is not at fault for extending the work beyond stipulated date of completion.
18. The Successful Tenderer is bound to carry out items of work necessary for completion of job even though the same are not included in the schedule of quantity. Rates of extra items shall be derived from the tender. In case the rates do not exist in the tender and extra item is not similar to tender item. Then the rates shall be worked out on the prevailing market cost of material and labour including wastage plus 15% towards tax and Contractor's profit.
19. The Contractor must co-operate with other contractor appointed by the Union Bank of India, Regional office 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and so that entire work shall proceed smoothly with least possible delay and to the satisfaction of the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar)
20. The Contractor shall remove all malba etc. wash and clean the floors regularly at his own cost and hand over the site in proper manner on the completion of work.
21. The Tenderer is advised to visit the site and acquaint himself with the site conditions making his own arrangement for storing of material at site lift, cartridge, etc.



22. The Initial Security Deposit shall be made, @ 2% of the accepted contract value less (subtracting) earnest money deposit, by the successful Tenderer within 07 days of acceptance of his tender. It shall be submitted in form of Bank Draft in favor of Union Bank Of India payable at Samastipur
23. The Successful Tenderer shall have to enter in to an agreement with the bank.
24. 10% of the Value of work done shall be deducted as retention money from the Interim payments made to the contractor, and shall be retained for Defects Liability Period (mentioned in the Appendix) and shall be released after the Defects Liability Period, provided no defects are noticed during the period. This retention money along with earnest money deposit and Initial Security Deposit would make the security deposit to be deposited by the contractor.
25. The Contractor shall attend to all defects noticed during liability period. If the Contractor fails to attend the defects, these defects shall be rectified by the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and the expenditure incurred on this account shall be recovered from security deposit.
26. The Contractor shall make adequate arrangement for watch and ward of his material and shall ensure the safety, breakage and any theft of materials fixed or unfixed by him or other sub contractors.
27. The Work executed should be got approved by the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and contractor shall rectify any bad workmanship pointed out at any stage and remove from site all the rejected materials immediately.
28. The Contractor shall be responsible for application of labour laws, compensation for injury and accident to person, whether employed by him or by his sub-contractor.
29. The Contractor shall take necessary precautions for carrying out the work avoiding any damage to structures/decorative parts of the property. The Contractor shall rectify damages done at his cost.
30. The Contractor shall ensure that workmen employed by him for execution of work are suitably covered against workmen's compensation Act and that all liabilities arising out of workmen's compensation Act, ESIS and other legislative enactment application to such works and workmen shall be to the contractor's account. The Contractor shall also ensure that he has gone under the closer of all sorts of insurance that are subjected to the said job, before commencing the job.
31. Furnishing, Civil, Water Supply, Furnishing and Demolition works shall be carried out as per drawing /specifications and to the entire satisfaction of the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and the Architect.
32. The Contractor shall give due notice to the Union Bank of India to check measurements of any which is likely to be hidden before covering the same.

33. The Contractor shall submit running bills for the value of work done mentioning full nomenclatures of items, rates, amount, measurements sheets, reasons, for part rates claimed, if any.
34. In case of non-completion or delay in completion of work or removal of defects in time the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) shall be free to appoint another agency to get the job done at contractor's risk and cost.
35. For fixed as well as loose furniture, rates quoted by the contractors shall be inclusive; octroi transportation etc. and no extra amount shall be paid on this account. GST shall be paid by the Bank.
36. Income-tax (TDS) at the rate of 2% (or as applicable from time) of the bill amount shall be deducted at source from the contractor's bill and shall be deposited with the I.T.O as per rules.
37. The Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) may delay the progress of work without, in any vitiating the contract and grant such extension of time for the commencement / completion of the contract as it may think proper and sufficient in consequence of such delay and contractor shall not make claim for compensation or damage in relation thereof.
38. The contractor shall not execute any extra item without Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) permission in writing.
39. The quantities mentioned in the schedule of quantities are approximate. Payment shall be made on actual work done by the contractor. However, the contractor should not deviate the quantity without Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) permission.
40. Conditional tenders quoted by the Tenderer are liable to be rejected.
41. The Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) has a right to alter the nature of work and to add or omit any items of work or to have the option of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.
42. In case the particular make of material mentioned not available at the time of execution of the work, the alternative make of materials shall be got approved from the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) / Architect before its use.
43. Arbitration - In case of any dispute between Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) & contractor, the decision taken by the arbitrator who shall be appointed by the

Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) shall be final.

(Union Bank of India, Regional Office Samastipur)

(Contractor)

**Appendix Referred in the General Conditions**

- Defects liability period: - 12 months.
- Date of commencement: - 2<sup>nd</sup> day from the date of issue of letter awarding the job
- Stipulated period for completion: - 21 days from the date of work order.
- Initial Security Deposit till completion of work (ISD): - 2% of the accepted contract value.
- Retention Money: - 10% to be deducted from interim payment.
- Security deposit for defects liability period: - The Security deposit shall be worked out as under-  
$$(SD) = EMD + ISD + RM$$
- Liquidated damages for non-completion of work within stipulated period. The Tenderer shall have to pay liquidated damages for non completion of job within stipulated period at the rate of Rs.1,000/- per day for the first week and Rs.2,000/- per day after that, with a maximum limit of 5% of the total contract value.

### **Technical Specification for Electrical Works**

1. While quoting rate for item of work, the contractor shall also include for the following irrespective of whether it has been mentioned or not in the detailed specifications of the item. The contractor shall not be paid any extra cost.
2. All electrical items including wire, Switches, MCBs etc shall confirm to latest relevant IS codes shall be used.
3. All metal work shall be treated with anti corrosive treatment.
4. The specifications which are not included in the technical specifications mentioned in the tender shall be as per ISI specifications/ Instruction of Employer / Architect.
5. The contractors are advised to refer the drawings for dimensions, sizes, etc, to cross check the BOQ and then quote accordingly.
6. Any sub standard materials used during the execution shall be rejected. The contractor shall replace the same, to the entire satisfaction of the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and Architect, at his own cost.
7. The contractor or his authorized representative shall remain at site supervise the total project. The representative shall always bear a copy of authority of letter from the contractor and a copy of it shall be submitted to Branch Manager.
8. The contractor shall also submit an undertaking to the bank mentioning that he shall bear the total responsibility for any sort of injury of physical damage done to the sub structure and ground floor, nearby structures, workmen employed at site staff member of Bank, Public Coming to bank, residents staying nearby, passersby etc.
9. Bank does not hold any responsibility for any sort of disputed or accident, which has arisen from the said job. All of them shall be on the contractor's account.
10. The Contractor shall not be paid extra for making of any cut out / opening for electrical / air - conditioning wiring / fitting in any of the item of false ceiling, partitions, paneling, skirting, masonry work etc.
11. The contractors shall fabricate and submit, at site, one or more samples of each item as instructed by Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) and Architect for approval. The bulk production of the each item shall be taken in hand only after the final approval of sample of each item. It shall be the entire responsibility of the contractor to get the sample approved by the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar) / Architect spending the minimum time and no extension of time shall be granted for getting the late approval of Samples. The approved sample shall be

kept at site in the custody of the Union Bank of India, Regional Office Samastipur, 1<sup>st</sup> Floor, Panchawati Complex, Mohanpur Road, Samastipur (Bihar). However, the same shall be taken back by the contractor after the completion of work in all respects.

12. The contractor, whenever asked shall submit basic unit rates of all constituent materials and labour required for completion of any particular item. These rates shall be for the analysis of any extra or substituted items.
13. Openings in partitions / paneling/ ceiling etc. shall be deducted as per IS specifications.

**ARCHITECT- ARTCON DESIGN CONSULTANTS, PATNA**  
**ELECTRICAL CONSULTANTS- FLUX VISION CONSULTANTS**  
**CLINTE- PUNJAB NATIONAL BANK**  
**PROJECT- UNION BANKBANK,KISHUNPUR BAIKUNTH (WARISNAGAR) BRANCH**

The following make of materials and equipments shall be used in the work. In the event of non availability of certain items, the approval of the architect/electrical engineer/employer must be obtained in the writing prior to using substitute make.

List of approved makes of electrical accessories & switchgears:

S. No.	Item	Make
1	PVC Conduit & Accessories	AKG/ CAPS/Malhotra - ISI Marked
2	Copper Wire PVC Insulated FR	Havell's /Finolex/RR Kabel
3	Modular Switch & Boards	Roma/Crabtree/L&T/ Legrand
4	MCB& MCB DB	Legrand/Siemens/Schneider
5	LED Light Fittings	Philips/Magik LED (Century)/ Havell's
6	Ceiling/Wall/Exhaust Fan	Khaitan/Havell's/Crompton
7	MCCB	L&T/Schneider/ABB.
8	Changeover	HPL /L&T/ ABB
9	Multifunctional Meters	Schneider/HPL/L&T
10	Current Transformer	AE/KAPPA/ESSMA
11	HRC Fuse	L&T/Havell's /GE
12	Telephone Wire	Havell's /Finolex/RR Kabel
13	Call Bell	Kona/Anchor
14	LT Panel/ UPS Panel	CPRI Tested Manufacturer
15	AC Controller	North West/ Legrand
16	Lugs	Dowell's/Jainson
17	Net-Working Hub	D-Link/ Legrand
18	VRF Air Conditioning	LG/Daikin/Carrier

**Specification of Wiring:**

- 1) PVC conduit shall be is marked and thickness of conduit embedded in slab/ wall shall be 2.0 mm thick and 1.6 mm thick for surface conduit. All conduits above 25 mm shall be 2.0 mm thick only.
- 2) Spacer made of gi strip not less than .60 mm thick with base shall be used at a distance not more than 750 mm from each other for surface wiring. Spacer shall be fixed with PVC RAWL plug and not ditofix powder. PVC base saddles are not allowed.
- 3) Wire used shall be of FR standard.
- 4) Colour code shall be used in the entire wiring to identify the phases on which every single phase load is, very distinctly. Earthing shall be in green colour and neutral shall be in black colour.
- 5) Every termination shall be made with crimping copper lugs & anti corrosive paste must be applied before crimping.

- 6) All the recessed switchboards shall be metallic, galvanised and of the same make as that of switches used.
- 7) Neutral & earthing wire for each circuit/power circuit/ups point shall be drawn separately and in case neutral or earthing wires are found to be looped in any circuit, the measurement of the circuit shall not be considered.
- 8) Exposed wiring shall be done in heavy duty PVC casing n capping.
- 9) All metallic boards shall be properly earthed.
- 10) 3<sup>rd</sup> pin of all sockets must be earthed.

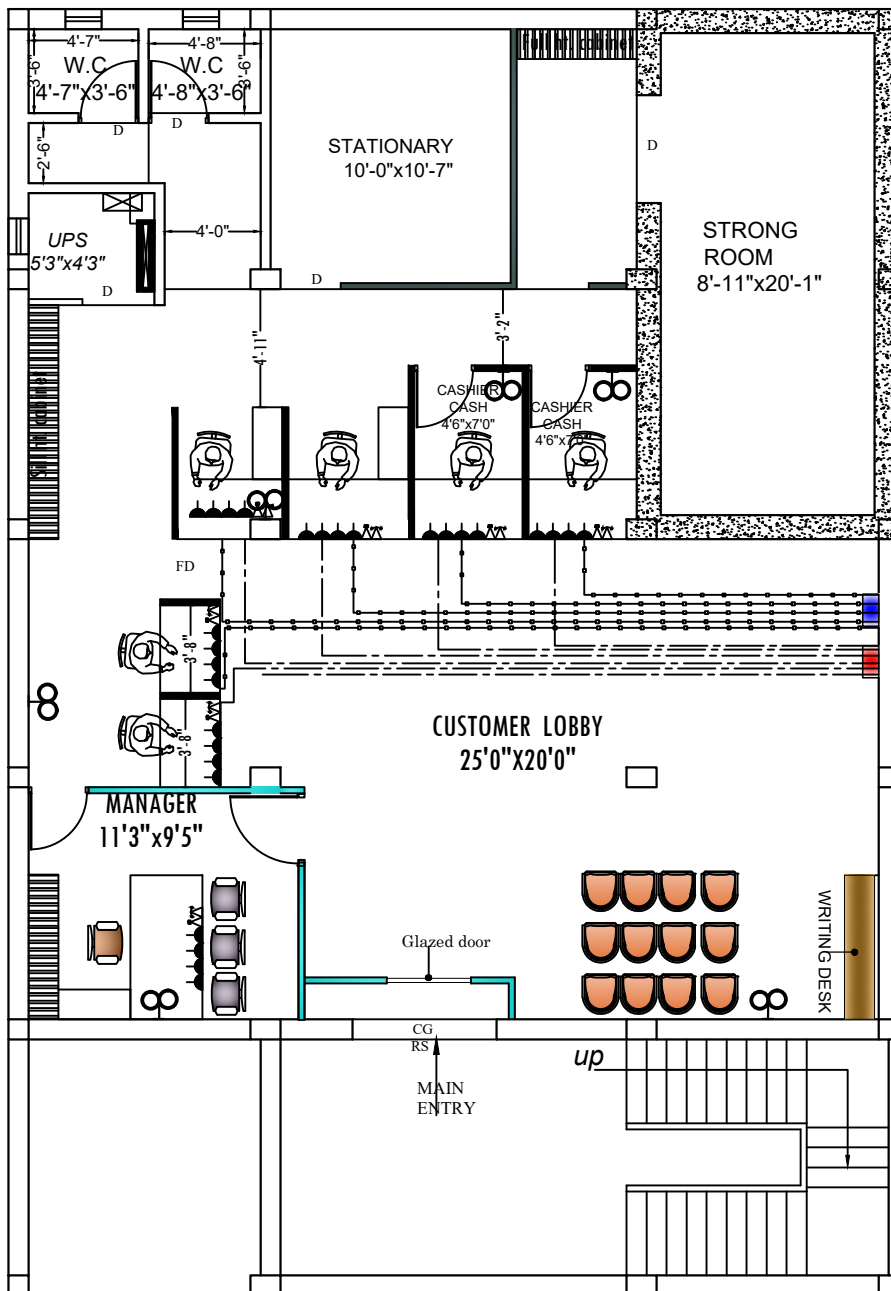
**Panel:**

- 1) Frame & shutters shall be 1.6 mm thick CRCA sheet.
- 2) Enclosure shall be rigorously treated for degreasing, derusting & passivation by 7 tank process of chemical treatment and panel shall be painted in paint shop having complete 7 tank facilities.
- 3) Paint shall be dry epoxy powder paint of RAL 732 siemens gray shade.
- 4) Distance between phases to phase shall be not less than 32 mm and phase to earth shall be not less than 25 mm.
- 5) Control/metering wiring shall be done with 1.5 sqmm PVC insulated wire.
- 6) Wiring between bus bar & switches shall be with following sizes of wires:
  - A) Upto 40 amp: 6 sqmm
  - B) Upto 63 amp: 10 sqmm
  - C) Upto 125 amp: 25 sqmm
  - D) Upto 160 amp: 35 sqmm
  - E) Above 160 amp: strip only
- 7) Bus bar selection shall be made on the basis of 1 sqmm= 1.6 amp for copper strips.
- 8) Outgoing access to switches shall not be through compartment of other switches.
- 9) Switchgear makes shall be as per schedule of makes.
- 10) Two numbers earthing terminals shall be provided in body of panel.
- 11) All hinged covers shall be earthed.
- 12) Vendor shall submit panel GA in duplicate before manufacturing and get it approved by bank/ electrical consultant.

**Test Report:**

Following reports have to be provided by the vendor at the time of submission of bill:

- 1) Wiring IR test report, earthing test report & polarity test report on vendor's letter pad/ green card duly signed by contractor & licensed supervisor.
- 2) Final as built plan in three copies drawn to the scale, printed in case of cad and blue print, in case of manual drawing.
- 3) Quality report indicating the items used with their makes.
- 4) Panel manufacturer's CPRI test report.
- 5) Routine test report of panel for IR & HV test.
- 6) Guarantee card of panel manufacturer.



**FIRST FLOOR PLAN**

- Note :-
- \* This drawing is property of **FVC** it must not be retained, copied reproduced in any form without written permission of **FVC**.
  - \* Use architectural drawing for detail dimensions.
  - \* In case of any discrepancy in this drawing or difficulty at site this office should be referred.
  - \* Position of power and light points should be compared with the position of geyser and basin from p.h.e. drawing.
  - \* Diameter of sub main conduit is 1" and remaining are of 0.75".

**LEGEND**

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN	CEILING
	1X4'-40W FLUORESCENT FIXTURE	7'-0"
	WALL BRACKET/CFL	7'-0"
	CEILING LIGHT	CEILING
	CHANDELIER	CEILING
	SWITCH BOARD WITH 5 AMP SOCKET	4'-6"
	SWITCH BOARD	4'-6"
	5 PIN 5A PLUG WITH SWITCH	1'6"/5'6"
	5 PIN 15A POWER PLUG	1'6"/4'6"
	F/M FOR FREEZE & W/M FOR WASHING	1'6"/4'6"
	25A A.C. POWER PLUG	1'6"
	CALL BELL PUSH SWITCH	4'6"
	CALL BELL BUZZER	7'-0"
	EXHAUST FAN	7'-0"
	T.V. OUTLET	1'6"
	TELEPHONE OUTLET	1'6"
	FIRE DETECTION SYSTEM	
	DISTRIBUTION BOX	6' 0"
	T.V. JUNCTION BOX	
	JUNCTION BOX	
	L.T. MAIN CONTROL PANEL	
	WAY FOR T.V. & TELEPHONE WIRING.	
	WAY FOR POINT WIRING. (25mm dia pipe)	
	WAY FOR POINT WIRING (19mm dia pipe)	
	WAY FOR SUB MAIN WIRING.	
	WAY FOR POWER POINT WIRING.	
	WAY FOR CIRCUIT WIRING.	

CLIENT:-

**UNION BANK OF INDIA R.O.  
SAMASTIPUR**

PROJECT:-

**PROPOSED INTERIOR LAYOUT OF  
UNION BANK OF INDIA  
AT-WARISNAGAR BRANCH**

SHEET TITLE:-

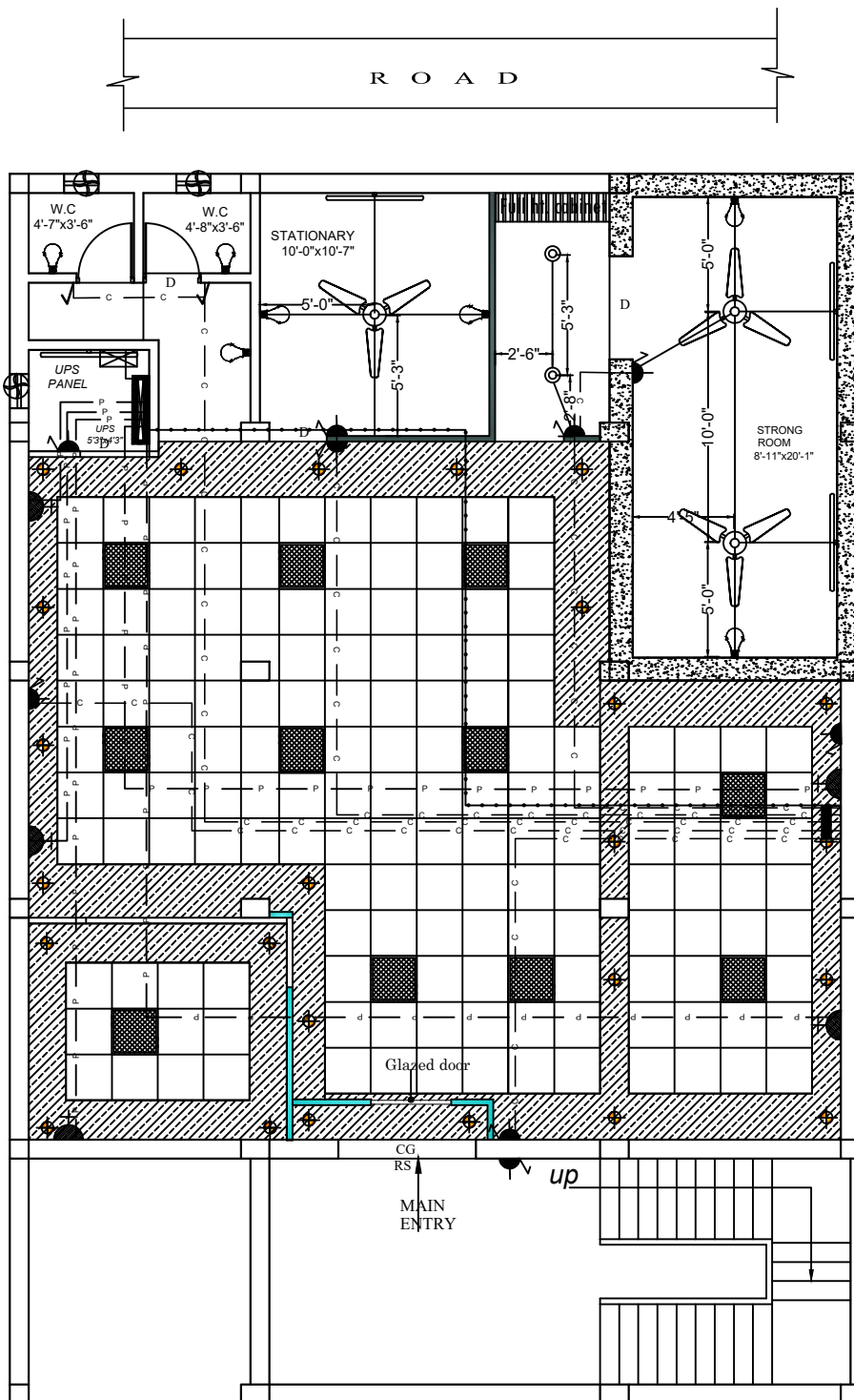
**ELECTRICAL LAYOUT PLAN -02**

SCALE	NORTH	DATE	DWG BY	CDD BY
NTS		29-03-2022	ADARSH	Er.P.Gaurav

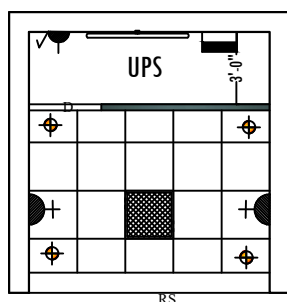
ARCHITECT:-

**ARTCON DESIGN CONSULTANTS**  
ARCHITECTS ENGINEERS  
INTERIOR DESIGNERS COMPUTER AIDED DESIGN  
G-04 Laxmi Palace, Mitra Compound, Boring Road - Patna - 800001  
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**FIRST FLOOR PLAN**



**ATM GROUND FLOOR PLAN**

Note :-  
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 \* Use architectural drawing for detail dimensions.  
 \* In case of any discrepancy in this drawing or difficulty at site this office should be referred.  
 \* Position of power and light points should be compared with the position of geyser and basin from p.h.e. drawing.  
 \* Diameter of sub main conduit is 1" and remaining are of 0.75".

**LEGEND**

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN	CEILING
	1X4'-40W FLUORESCENT FIXTURE	7'-0"
	WALL BRACKET/CFL	7'-0"
	CEILING LIGHT	CEILING
	CHANDELIER	CEILING
	SWITCH BOARD WITH 5 AMP SOCKET	4'-6"
	SWITCH BOARD	4'-6"
	5 PIN 5A PLUG WITH SWITCH	1'6"/5'6"
	5 PIN 15A POWER PLUG	1'6"/4'6"
	F/M FOR FREEZE & W/M FOR WASHING	1'6"/4'6"
	25A A.C. POWER PLUG	1'6"
	CALL BELL PUSH SWITCH	4'6"
	CALL BELL BUZZER	7'-0"
	EXHAUST FAN	7'-0"
	T.V. OUTLET	1'6"
	TELEPHONE OUTLET	1'6"
	FIRE DETECTION SYSTEM	
	DISTRIBUTION BOX	6' 0"
	T.V. JUNCTION BOX	
	JUNCTION BOX	

	L.T. MAIN CONTROL PANEL
	WAY FOR T.V. & TELEPHONE WIRING.
	WAY FOR POINT WIRING. (25mm dia pipe)
	WAY FOR POINT WIRING (19mm dia pipe)
	WAY FOR SUB MAIN WIRING.
	WAY FOR POWER POINT WIRING.
	WAY FOR CIRCUIT WIRING.

CLINT:-

**UNION BANK OF INDIA R.O.  
SAMASTIPUR**

PROJECT:-

**PROPOSED INTERIOR LAYOUT OF  
UNION BANK OF INDIA  
AT-WARISNAGAR BRANCH**

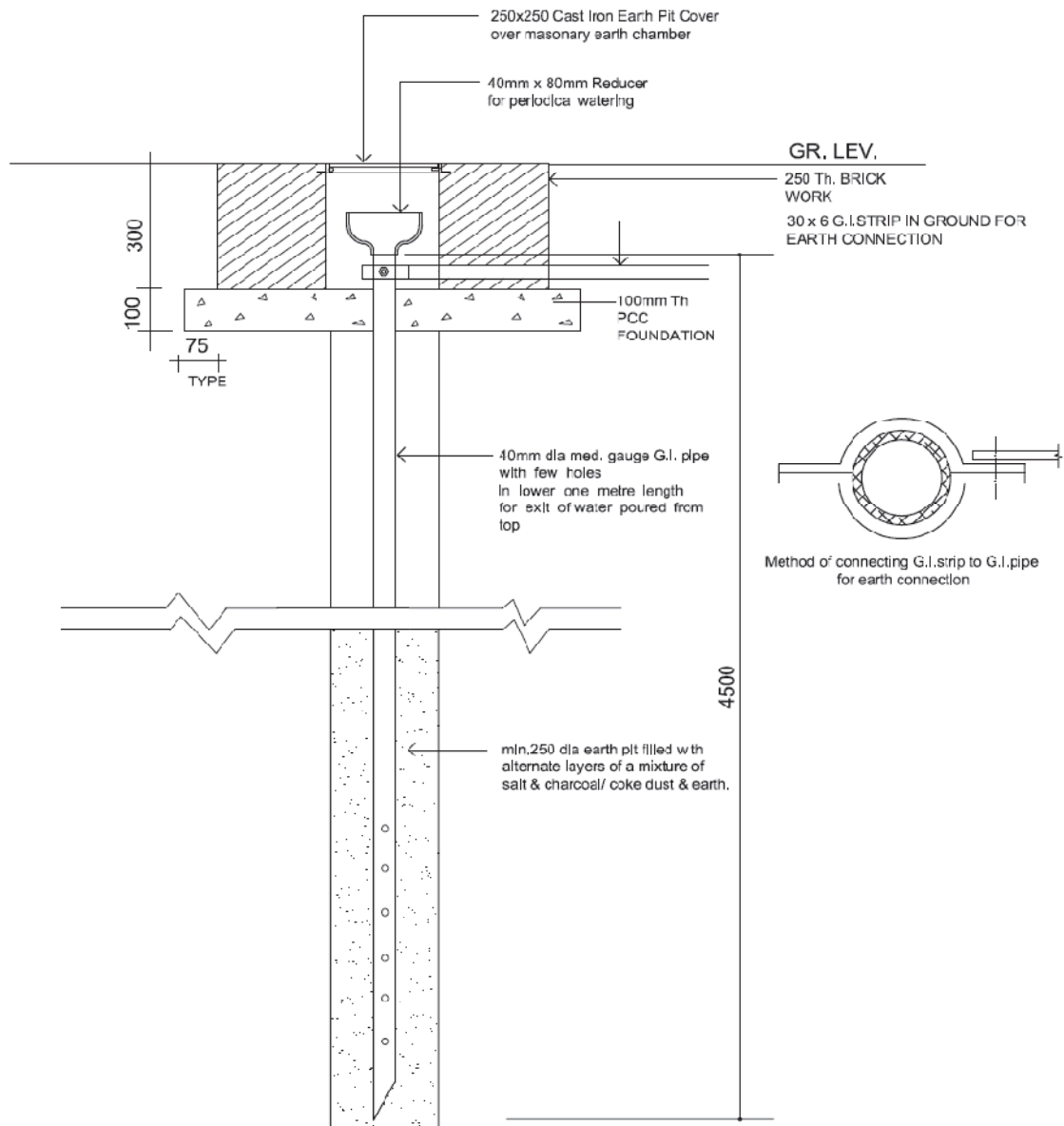
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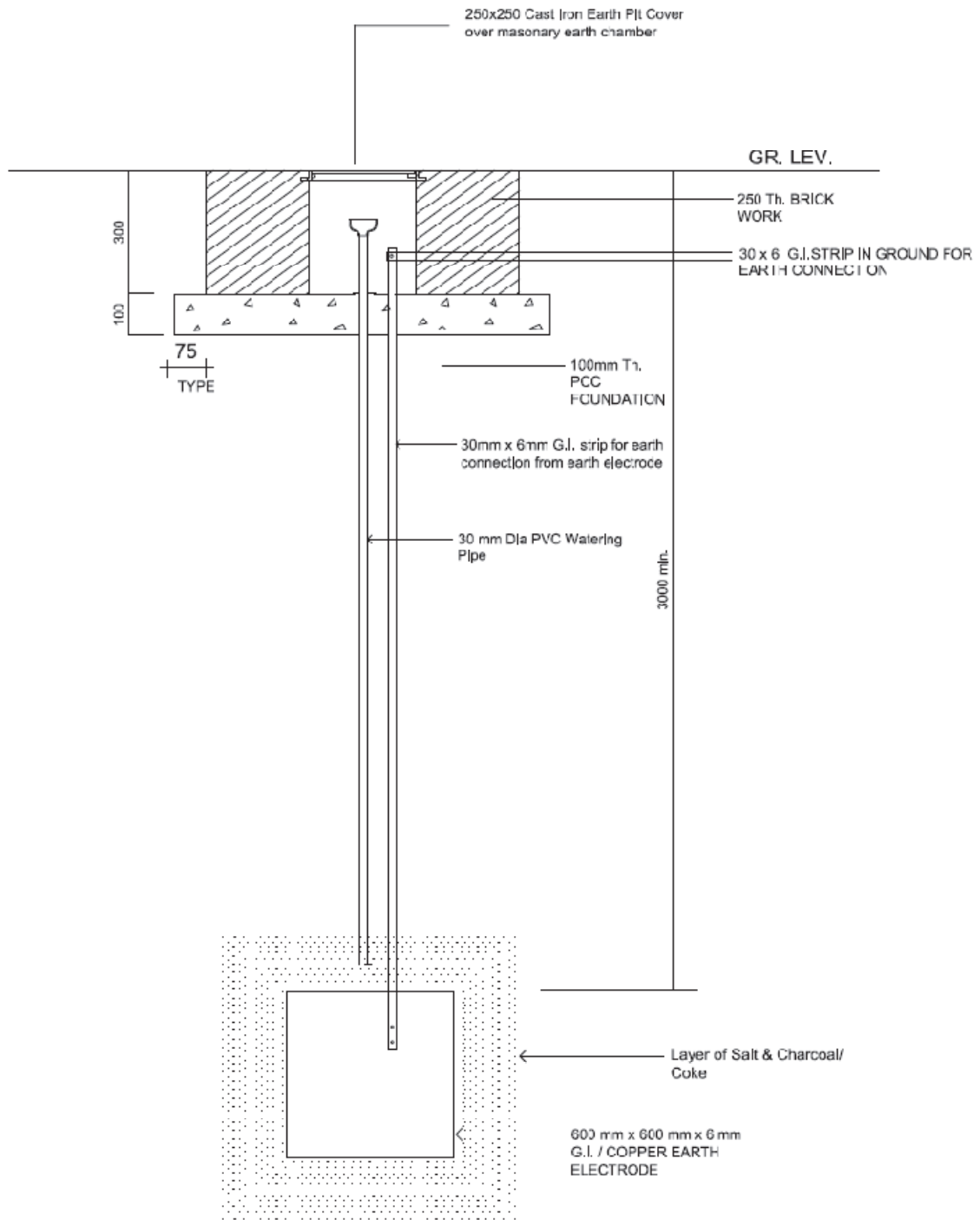
**ELECTRICAL LAYOUT PLAN -01**

SCALE	NORTH	DATE	DWG BY	CDD BY
NTS		29-03-2022	ADARSH	Er.P.Gaurav

ARCHITECT:-

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**ARCHITECT- ARTCON DESIGN CONSULTANTS, PATNA**

**CLINTE- UNION BANK OF INDIA**

**PROJECT- UNION BANK OF INDIA, WARISNAGAR BRANCH**

THE FOLLOWING MAKE OF MATERIALS AND EQUIPMENTS SHEEL BE USED IN THE WORK. IN THE EVENT OF NON AVAILABILITY OF CERTAIN ITEMS, THE APPROVAL OF THE ARCHITECT/ELECTRICAL ENGINEER/EMPLOYER MUST BE OBTAINED IN THE WRITING PRIOR TO USING SUBSTITUTE MAKE.

LIST OF APPROVED MAKES OF ELECTRICAL ACCESSORIES & SWITCHGEARS:

SL NO	ITEM	MAKE
1	PVC CONDUIT & ACCESSORIES	AKG/ CAPS/MALHOTRA – ISI MARKED
2	COPPER WIRE PVC INSULATED FR	HAVELL'S /FINOLEX/RR KABLE
3	MODULAR SWITCH & BOARDS	ROMA/CRABTREE/L&T/ LEGRAND
4	MCB& MCB DB	LEGRAND/SIEMENS/SCHNEIDER
5	LED LIGHT FITTINGS	PHILIPS/MAGIK LED (CENTURY)/ HAVELL'S
6	CEILING/WALL/EXHAUST FAN	KHAITAN/HAVELL'S/CROMPTON
7	MCCB	L&T/SCHNEIDER/ABB.
8	CHANGEOVER	HPL /L&T/ ABB
9	MULTIFUNCTIONAL METERS	SCHNEIDER/HPL/L&T
10	CURRENT TRANSFORMER	AE/KAPPA/ESSMA
11	HRC FUSE	L&T/HAVELL'S /GE
12	TELEPHONE WIRE	HAVELL'S /FINOLEX/RR CALEL
13	CALL BELL	CONA/ANCHOR
14	LT PANEL/ UPS PANEL	CPRI TESTED MANUFACTURER
15	AC CONTROLLER	NORTH WEST/ LEGRAND
16	LUGS	DOWELL'S/JAINSON
17	NET-WORKING HUB	D-Link/ LEGRAND
18	VRF AIR CONDITIONING	LG/DAIKIN/CARRIER

**BILL OF QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR  
UNION BANK OF INDIA, WARISNAGAR BRANCH**

BRANCH					
A	SUB HEAD-I (WIRING)				
B	SUB HEAD-II(DISTRIBUTION BOARDS & PANELS)				
C	SUB HEAD-III (SUPPLY OF FIXTURES & FANS)				
D	SUB HEAD - IV (ERECTION OF FIXTURES)				
E	SUB HEAD-V (SUPPLY OF CABLE MAIN & SUBMAIN)				
F	SUB HEAD-VI(SUPPLY & MAKING OF EARTHPIES)				
	<b>BRANCH TOTAL-</b>				
	<b>ATM TOTAL -</b>				
	<b>SUB TOTAL ( BRANCH +ATM)</b>				
	<b>G.S.T(Extra as applicable)</b>				
SL. NO.	ITEM OF WORK	UNIT	QTY	RATE	AMOUNT
<b>SUB HEAD - I (WIRING)</b>					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FR PVC insulated copper condtr single core cable in surface/ recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the 3rd point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc as required.	Each	45		
2	Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	115		
3	Wiring for Light D.B.CKT with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	22		
4	Sub main Wiring between UPS to UPS feed DB with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 1X 6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	22		
5	Wiring for RAW Power with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	22		
6	Sub Main Wiring from LT Panel to UPS Panel with 4 x 10 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	15		
7	Wiring for UPS and RAW feed computer point with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. ( 3 outlets, i.e 3 points each with 1 switch and 3 sockets shall be under one circuit	Mtr.	295		
8	Light Circuit wiring with 2 x 1.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	95		

9	15A/16A Power point Circuit wiring with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	45		
10	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	8		
11	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd.	Set	3		
12	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd.	Set	5		
13	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	1		
14	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power and 2 no. 5 pin 5/6 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box. As per instruction of Bank/Ele.Er./as required.	nos.	10		
15	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	9		
	b) Cat-6 Data cable with PVC conduit	Mtr.	305		
16	Supply & fixing of approved make including square face plate and				
	a) RJ-11 socket	Set.	3		
	b) Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/PVC conduit as required.	Mtr.	175		
17	Supplying and drawing fixing 8 SWG copper conductor wire for loop earthing as required.	Mtr.	45		
18	Supply & fixing Commissioning of 20 line Net-working hub all complete as required.	Set.	1		
19	Supply & fixing Commissioning of 2 Meter Patch Cord as required, all complete as per requirement.	Set.	10		
20	Supply & fixing of following sizes of PVC conduit along with				
	a) 20 mm	Mtr.	20		
	b) 25 mm	Mtr.	20		
<b>TOTAL SUB HEAD-I</b>					
<b>SUB HEAD - II (DISTRIBUTION BOARDS &amp; PANELS)</b>					
1	Supplying & Fixing following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. ( But without MCB / RCCB/Isolator)				
B	16 Way double door SPN DB.	Each	3		
2	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
A	40 A 10 KA DP MCB "C"	Each	3		
B	6/10 A 10 KA SP MCB "C"	Each	35		

3	<p>Supply &amp; fixing of indoor cubicle extensible type fully compartmentalized Distribution panel suitable for operation on 415 volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust &amp; vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required (as per specifications of Panel attached)</p> <p><b>TEST REPORT:</b>  <b>FOLLOWING REPORTS HAVE TO BE PROVIDED BY THE VENDOR AT THE TIME OF SUBMISSION OF BILL:.</b>  <b>1) FINAL AS BUILT PLAN IN THREE COPIES DRAWN TO THE SCALE, PRINTED IN CASE OF CAD AND BLUE PRINT, IN CASE OF MANUAL DRAWING.</b>  <b>2) QUALITY REPORT INDICATING THE ITEMS USED WITH THEIR MAKES.</b>  <b>3) PANEL MANUFACTURER'S CPRI TEST REPORT FOR SHORT CIRCUIT (50KA), IP TEST &amp; TEMPERATUE RISE.</b>  <b>4) ROUTINE TEST REPORT OF PANEL FOR IR &amp; HV TEST.</b>  <b>5) GUARANTEE/WARRANTY CARD OF PANEL MANUFACTURER.</b></p>	nos.	1		
	<b>INCOMING:</b>				
	a) 100 amp 4 pole MCCB not less than 36 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit complete with rotary handle etc as reqd.: 1 no				
	b) 63 amp 4 pole heavy duty I-II-I type cubicle changeover switch: 1 no				
	<b>METERING:</b>				
	a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos				
	c) LED type phase indicationg lamp in phase distinguishing colors with HRC fuse : 6nos				
	<b>BUS BAR:</b>				
	Main Bus Bar: 4 strip 200 amp bus bar made of electrical grade aluminium strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set				
	Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical grade aluminium strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set				
	<b>Current Density of bus bar should be 0.8 amp/Sq.mm</b>				
	<b>OUTGOINGS:</b>				
A	40 amp DP MCB 10 KA D series: 4 nos				
B	25 amp Single pole & Neutral MCB 10 KA D Series:10 nos				
4	<p>Supply &amp; fixing of indoor cubicle type UPS panel suitable for operation on 415 volts 50 Hz, 3 phase 4 wire AC distribution system, AC supply, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust &amp; vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required. (as per specifications of Panel attached)</p>	nos.	1		
	<b>INCOMING:</b>				
	a) 63 amp 4 pole MCCB 10 KA D series.: 1 no				
	<b>METERING:</b>				

	a) Digital Volt meter displaying voltage of each phase along with 3 nos HRC type protection fuse etc as reqd: 1 nos				
	<b>UPS INPUT &amp; OUT PUT</b>				
	1 no 40 A SPN MCB 10KA with 1 no 40 amp Industrial type socket out let and Top with connection for input switch from selector switch and between out put switch to o/g MCB with PVC insulated copper conductor wire as reqd: 5 nos ( for UPS input & Output from UPS)				
	<b>OUTGOINGS:</b>				
	a) 63 amp FP MCB 10 KA B Series: 4 nos.				
	<b>TOTAL SUB HEAD-II</b>				
	<b>SUB HEAD - III (SUPPLY OF FIXTURES &amp; FANS)</b>				
1	Supplying of 6W/9W LED batten suitable for indoor application.	Each	4		
2	Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as reqd.	Each	3		
3	Supplying of 36W LED (2'X2') surge protection LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd.	Each	11		
4	Supplying of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each	25		
5	Supplying, installation, testing & fixing of 1X36 W tube light fitting powder coated batten with PC tube.	Each	5		
6	Supplying of Exhaust fan 300mm sweep HEAVY DUTY EXHAUST	Each	3		
7	Supplying of 1200 mm sweep energy efficient ceiling fan, connection with 1.5 sqmm PVC ins copper condtr, testing, commissioning etc as reqd.	Each	3		
8	Supplying of oscillating and tilting type wall bracket fan of 400 mm sweep i/c fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required.	Each	7		
	<b>TOTAL SUB HEAD-III</b>				
	<b>SUB HEAD - IV (ERECTION OF FIXTURES)</b>				
1	Installation, testing and commissioning of ceiling fan and regulator including wiring the down rod of standard length (upto 30 cm) with 1.5 sq. mm PVC insulated, copper conductor, single core cable, i/c pvdg earthing wire etc. as required.	Each	3		
2	Installation, testing and commissioning of 400MM wall fan including wiring with 1.5 sq. mm PVC insulated, copper conductor, single core cable etc. as required.	Each	7		
3	Installation of exhaust fan up to 300mm sweep in the existing opening, including making the opening / hole to suit the size of the above fan, making good the damages, connections, testing, commissioning etc. as required.	Each	3		
4	Installation, testing and commissioning of 1X36watt tube Light or 1 X 18/23 watt LED with tube /bulb and other all cover provide all fitting.	Each	41		
	<b>TOTAL SUB HEAD-IV</b>				
	<b>SUB HEAD - V (SUPPLY OF CABLE MAIN &amp; SUBMAIN)</b>				



1	Supply & laying for sub main from L.T line & DG line following sizes and core PVC/XLPE insulated PVC sheathed, heavy duty, armored electrical cable with aluminum conductor for working voltage up to and including 1100 volts.(Conforms to IS:1554.part-1) with 8 no. SWG die bare copper conductor wire for loop earthing, proper laying on wall or roof, thumbnail clipping and use proper size cable gland for cable sport etc. as required. all complete as per instructions of Elec.Er. / Architect.				
A	35 sq.mm, 3.5 core LT Cable	Mtr.	45		
B	16 sq mm,3.5 core LT Cable	Mtr.	30		
<b>TOTAL SUB HEAD-V</b>					
<b>SUB HEAD - VI (SUPPLY &amp; MAKING OF EARTHPIITS)</b>					
1	Earthing with copper earth plate 600mm x 600mm x 3 mm thick including accessories, and providing masonry enclosure with cover plate having arrangement and watering pipe 2.7 meter long etc. with charcoal/coke and salt as required	Set	1		
2	Earthing with GI earth plate 600mm x 600mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having arrangement and watering pipe 2.7 meter long etc. with charcoal/coke and salt as required	Set	2		
			<b>TOTAL SUB HEAD-VI</b>		
<b>Electrical work for ATM</b>					
<b>BILL OF QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR UNION BANK OF INDIA- WARISHNAGAR BRANCH (ATM)</b>					
<b>SL. NO.</b>	<b>ITEM OF WORK</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>SUB HEAD - I (WIRING)</b>					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FR PVC insulated copper condtr single core cable in	Each	6		
2	Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated	Mtr.	15		
3	Wiring for UPS fed computer point with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. ( 3 outlets, i.e 3 points each with 1 switch and 3 sockets shall be under one circuit	Mtr.	15		
4	Circuit wiring with 2 x 1.5 sqmm FR PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	15		
5	S/F suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	2		
6	S/F AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd.	Set	2		
7	S/F suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd.	Set	1		

8	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power with modular type switch phenolic laminated sheet suitable size PVC/G.I. box. As per instruction of Bank/Ele.Er./as required.	nos.	2		
10	S//T/Commissioning of 2 Meter Patch Cord as required, all complete as per requirement.	Set.	1		
15	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	2		
	b) Cat-6 Data cable with PVC conduit	Mtr.	75		
	<b>TOTAL SUB HEAD-I</b>				
<b>SUB HEAD - II (DISTRIBUTION BOARDS &amp; PANELS)</b>					
1	SITC of indoor cubicle extensible type fully compartmentalized Distribution panel suitable for operation on 415 volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required (as per specifications of Panel attached)				
	<b>INCOMING:</b>				
	a) 63 amp 4 pole MCCB not less than 25 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit complete with rotary handle etc as reqd.: 1 no				
	<b>METERING:</b>				
	a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos				
	c) LED type phase indicationg lamp in phase distinguishing colors with HRC fuse : 6nos				
	<b>BUS BAR:</b>				
	Main Bus Bar: 4 strip 150 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set				
	<b>OUTGOINGS:</b>				
	a) 63 A rotary type Phase selector: 1 no				
	b) 40/63 amp SPN MCB 10 KA D series: 2 nos ( UPS + spare)				
	c) 25 amp Single pole & Neutral MCB 10 KA D Series: 2 nos (For AC)				
	d) 10 A SP MCB- 2 no. (For Light CKT)				
	e) 1 no 40 A SPN MCB 10KA with 1 no 40 amp Industrial type socket out let and Top with connection for input switch from selector switch and between out put switch to o/g MCB with PVC insulated copper condtr wire as reqd: 2 nos ( for UPS input & Output from UPS)		1		
	<b>TOTAL SUB HEAD-II</b>				
<b>SUB HEAD - III (FIXTURES &amp; FANS)</b>					
1	Supplying &fixing 1x18-60W CFL/Bulk head Luminaries with tube/bulb (FL800/320) make PHILIPS / approved equivalent.	Each	1		
2	Supplying, installation, testing & fixing of 18W LED edge-lit luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic driver. Make- WIPRO (CAT. NO.-LM25 361-57, 38W LED) or equivalent of approved make by architect etc as reqd.	Each	1		

[illegible]