

Ref No: - ROK:OP:012:CRS:20/Electrical

Date: 21.04.2026

**REGIONAL OFFICE - KOTTAYAM**  
**3<sup>rd</sup> FLOOR, AMALA TOWERS, ADICHIRA JUNCTION, KOTTAYAM - 686016**

**SUBJECT: ELECTRIFICATION OF NEW RAJAKUMARI BRANCH PREMISES AT**  
**GROUND FLOOR, DOOR NO.475/B, 475/C VELLACKAN'S ARCADE, RAJAKUMARI**  
**IDUKKI DISTRICT - 685619**

## **TENDER FOR ELECTRIFICATION**

**TENDER SPECIFICATION AND BILL OF QUANTITIES**

# **PRICE BID**

Date of issue of Tender	From 24.04.2026 to 14.05.2026
Last date for submission of tender	14.05.2026 sharp 3.00 pm

<b><u>Owner:</u></b> M/s Union Bank of India Regional Office- Kottayam 3 <sup>rd</sup> Floor, Amala Towers, Adichira Junction, Kottayam. Email: mgrpndrokottayam@unionbankofindia.bank	<b><u>Architect:</u></b> M/S ILLUSIONS ARCHITECTURAL ENGINEERS INTERIOR DESIGNERS 67 GIRINAGAR, KOCHI 20 PH. 0484 2317701,919447917701 MAIL- manoj.illusions@yahoo.in
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**3<sup>rd</sup> FLOOR, AMALA TOWERS, ADICHIRA JUNCTION, KOTTAYAM - 686016**

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**GROUND FLOOR, DOOR NO.475/B, 475/C VELLACKAN'S ARCADE, RAJAKUMARI**  
**IDUKKI DISTRICT - 685619**

Union Bank of India invites Price Bid from eligible Union Bank of India empaneled contractors for Electrification work of our Union Bank of India - Rajakumari Branch. Completion period is 30 days. Tender forms are available on Bank's website [www.unionbankofindia.co.in](http://www.unionbankofindia.co.in). & Government portal [www.eprocure.gov.in](http://www.eprocure.gov.in) from 24.04.2026 to 14.05.2026. The contractors are advised to visit the site before quoting the tender. The last date of submission of tender is 14.05.2026 up to 3.00 PM sharp and to be dropped in the Tender Box placed at the following address:

**UNION BANK OF INDIA**  
**REGIONAL OFFICE- KOTTAYAM**  
**3<sup>RD</sup> FLOOR, AMALA TOWERS,**  
**ADICHIRA JUNCTION,**  
**KOTTAYAM - 686016.**

The Bank reserves the right to reject any or all applications without assigning any reasons whatsoever. Please refer banks website and Govt. portal regarding any corrigendum for the subject tender till finalization.

**REGIONAL HEAD**  
**REGIONAL OFFICE – KOTTAYAM**

## DISCLAIMER

The information is provided to prospective tenderers, who intend to participate in tendering for **Electrification works of New Rajakumari Branch Premises At Ground Floor, Door No.475/B,475/C Vellackan's Building Rajakumari P.O, Thodupuzha, Idukki District - 685619** for **Union Bank of India, Rajakumari Branch** for which this tender has been issued, as per the terms and conditions set out in this tender and any other terms and conditions related to such information.

This tender is neither an agreement nor an offer and is only invitation by the Bank to the interested parties for submission of bids and the purpose of this Tender/ Request for Proposal (RFP) is to provide the Bidder(s) with information to assist the formulation of their proposals. The RFP does not claim to contain all the information each Bidder may require. While Bank has taken due care in the preparation of the information contained herein, it does not claim that the information is exhaustive. Respondents to this tender are required to make their own inquiries/analysis and should check the accuracy, reliability and completeness of the information in this RFP and where necessary obtain independent advices/clarifications. They should not rely solely on the information contained in the blank tender documents / forms. Bank may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP. The Bank is not responsible if no due diligence is performed by the Respondents.

No contractual obligation whatsoever shall arise from the RFP process until a formal contract is signed and executed by duly authorized officers of the Bank with the selected Bidder.

The Bank, its employees and advisors make no representation or warranty and shall have no liability to any person, including any applicant or Bidder under any law, statute, rule or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expenses which may arise from or be incurred or suffered on account of anything contained in this tender or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the tender and any assessment, assumption, statement or information contained therein or deemed to form part of this tender or arising in any way for participation in this Bid stage.

Union Bank of India reserves the right to alter, amend, update or supplement the information reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline bids without assigning any reason thereof.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery, fees, expenses associated with any demonstrations or presentations which may be required by Bank or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and Bank shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding process.

## ABSTRACT OF COST

**SUBJECT: ELECTRIFICATION OF NEW RAJAKUMARI BRANCH PREMISES AT  
GROUND FLOOR, DOOR NO.475/B, 475/C VELLACKAN'S ARCADE, RAJAKUMARI  
IDUKKI DISTRICT - 685619**

**Details of tender amount quoted by the contractor:**

Sr.No	Particulars of works	Amount
1	ELECTRIFICATION	Rs.

**(Total Quoted Amount in Words) = \_\_\_\_\_**

Rate inclusive of all Material charges, Transportation, Local levies as applicable, Loading, Unloading, Lifting- Shifting, Erection, Testing, Commissioning, Scaffolding, GST, any additional/ special duties, excise, custom duty etc. as applicable.

**Signature of Contractor with Seal**

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## 1. TENDER NOTICE

Sealed tenders are invited in the prescribed form from competent, experienced, technically and financially sound contractors having sufficient qualified technical personal and possessing required equipment for the following Electrification works at **M/S. UNION BANK OF INDIA RAJAKUMARI.**

Name of work : Electrification works at **M/S. UNION BANK OF INDIA RAJAKUMARI.**

Earnest Money Deposit : Rs. 2500/-

EMD should be by way of demand draft from a scheduled/ nationalized bank in favour of **M/S. UNION BANK OF INDIA.**

Tender forms (nontransferable) can be had from the Regional office of **M/s. UNION BANK OF INDIA, KOTTAYAM** working days from 24/04/2026 to 14/05/2026.  
Documents will not be sent by post.

Tenders shall be submitted in the manner specified in the 'Instructions to bidders' forming part of the tender. Tender super scribing name of work, date of submission & name and address of the tenderer shall be submitted in sealed envelopes addressed to **THE REGIONAL HEAD, UNION BANK OF INDIA, REGIONAL OFFICE, KOTTAYAM.**

The tenders shall be received at the Regional office of Union Bank of India, by 3 pm on 14/05/2026.

The Employer will not be bound to accept the lowest tender and reserves the right to reject any or all tenders without assigning any reasons whatsoever.

For **M/S . UNION BANK OF INDIA**

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## 2. INSTRUCTION IN REGARD TO SUBMISSION OF TENDER

1. Address to which the tender is to be submitted : THE REGIONAL HEAD, UNION BANK OF INDIA  
: REGIONAL OFFICE, KOTTAYAM

2. Last date and time of receipt of tender : Up to 3 PM on 14/05/2026.

3. The tenderer shall go through all documents and each page of the bid documents including bid drawings shall be signed and dated by the tenderer as a token of having examined the same. Tenderer shall enter their rate in figures and in words. No alteration or multiplication, other than filling in particulars wherever called for, shall be made in the document. Any changes /deviations made by the tenderer on the bid documents shall not be taken into consideration.

4. No alteration or additions are to be made by the contractors to the text of the Schedule of these tender papers. Violation of this instruction entails rejection of the tender at the discretion of the employer.

5. Earnest money accompanying the tender will be accepted only in the form of Crossed Demand Draft payable at **KOTTAYAM** Any scheduled /Nationalized Bank in Favour of M/S UNION BANK OF INDIA. Any tender which is not accompanied by Earnest Money Deposit shall be summarily rejected.

No interest will be paid for the period during which the Earnest Money lies in deposit with the Employer.

6. Contractors are warned that cash or encashable cheques or Insurance Guarantee or fixed deposit receipt in lieu of the aforementioned form of the Earnest Money remittance will not be accepted.

Any tender with conditions or deviation from the tender documents will be summarily rejected.

7. Bids will be received on or before 3 pm on 14/05/2026.

Bids received after the due date and time will be rejected M/S UNION BANK OF INDIA will not take any responsibility for the loss, delay or non-receipt tenders sent by mail.

8. Contractor shall commence the work immediately on receipt of letter /Fax or intent of work order whichever is issued earlier and complete the work within the stipulated time limit from the date of issue of L.O.I or work order whichever is issued earlier.

9. Offers shall be valid for a period of 4 calendar months from the date of opening of the tender.

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3. FORM OF TENDER

To

.....

.....

Dear sir

Having examined the drawings , specifications, designs and schedule of quantities relating to the works specified in the memorandum herein after set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender.

I/we.....

Hereby offer to execute the works specified in the said memorandum within the time specified at the rate mentioned in the attached schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in the conditions of tender, articles of agreement, schedule of quantities, general instructions to tenderers, special conditions of contract, general technical specifications and with such other materials and conditions as may be prescribed from time to time.

- 1 . Description of work: :Proposed Electrification works for M/S UNION BANK OF INDIA ;RAJAKUMARI
- 2. EMD : Rs. 2500/-
  
- 3. Retention to be deducted from bills :10% of final bill value.
- 4. Time allowed for completion from the 3<sup>rd</sup> day after the date : Total of 30 days for all works together of written order to commence the works.

Should this tender be accepted , I/We .....

..... hereby agree to abide by and fulfill the terms and provisions of the said conditions

I/We

Have enclosed a Crossed Demand Draft for a sum of Rs.2500/- drawn in favour of M/s. M/S UNION BANK OF INDIA as Earnest Money which amount is not to bear any interest .

Should I/We fail to execute the agreement when called upon to do so ,I/We do here by agree that this sum shall be forfeited by me/us to the Employer in addition to other liabilities prescribed by virtue of other terms of contract and under law.

The names of partners of our firm are : -

1

2

3

Name of the partners of the firm authorized to sign .

Or

Name of the person having power of attorney to sign the contract (certified true copy of the power of attorney should also be attached )

Yours faithfully

(Contractor)

Signature and address of the Witnesses : -

1 .

2.

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#### 4. GENERAL INSTRUCTIONS TO TENDERERS

##### 1. SUBMISSION OF TENDER :-

Tenders must be submitted in original and without making any additions alterations and as per details given in other clauses given hereunder.

The tenderer should write clearly the revised quantities in schedule of rates of tender document and should price the work based on revised quantities when amendments for quantities are issued in addenda.

Covering letter along with its enclosures accompanying the tender document and all further correspondence shall be submitted.

Tenders should always be placed in sealed cover super scribing:

**“TENDER FOR THE ELECTRIFICATION WORKS AT M/S UNION BANK OF INDIA, RAJAKUMARI”**

The full name, address and telegraphic address of tenderer shall be written on the bottom left hand corner of the sealed cover.

##### 2. TENDER DOCUMENTS

The tenderer, as submitted, will consist of the following.

- a. Complete set of tender documents as sold duly filled in and signed by the tenderer
- b. Earnest Money in the manner specified
- c. Power of Attorney or a true copy thereof duly attested by a Gazetted officer in case an authorized representative has signed the tender.

##### 3. ALL PAGES TO BE INITIALLED

All signatures in tender document shall be dated ,as well as all pages of the sections of tender documents shall be initialed at the lower right hand corner or signed where ever required in the tender paper by the tenderer or by a person holding power of Attorney authorizing him to sign on behalf of the tenderer before submission of tender .

##### 4. RATES TO BE IN FIGURES AND WORDS

The tenderer should quote in English both in figures as well as in words the Rate and it should be duly signed.

##### 5. CORRECTIONS AND ERASURES:

All corrections and alterations in the entries of tender paper will be signed in full by the tenderer with date. No erasures or overwriting are permissible.

##### 6. SIGNATURE OF TENDERER:

The tender shall contain the name ,residence and place of business of person or persons making the tender and shall be signed by the tenderer with his usual signature .Partnership firms shall furnish the full names of all partners in the tender .It should be signed in the partnership’s name by all the partners or by duly authorized representative followed by the name and designation of the person signing .Tender by a Corporation shall be signed by an authorized representative and a power of Attorney in that behalf shall accompany the tender . A copy of the constitution of the firm with names of all partners shall be furnished.

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## **7. WITNESS**

Witness and sureties shall be persons of status and property and their names, occupation and address shall be stated below their signature.

## **8. TRANSFER OF TENDER DOCUMENTS**

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

## **9. EARNEST MONEY**

The tenderer must pay Earnest Money as given in the notice inviting tenders and attach the official receipt with the tender failing which the tender is liable to be rejected. The Earnest Money is to be paid by way of Crossed Demand Draft for Rs.2500/-In favour of M/S UNION BANK OF INDIA from any Nationalized/Scheduled Bank. Cheques are not acceptable.

No interest shall be paid by the owner on the Earnest Money deposited by the tenderer.

The Earnest Money deposited by the successful tenderer will be retained towards the security deposit for the fulfillment of the contract ,but shall be forfeited if the tenderer fails to deposit the requisite security deposit or fails to start work within a period of 5days or fails to execute the agreement within 5days from the date of receipt of the letter of acceptance of tender .

## **10. VALIDITY**

The tender will be considered firm for a period of 4 months from the date of opening the tender, which period may be extended by mutual agreement and the tenderer shall not cancel or withdraw the tender during this period. The Earnest Money Deposit of the successful tenderers will be refunded after the tenders are disposed of.

## **11. RIGHT TO EMPLOYER ON TO ACCEPT OR REJECT TENDER**

The right to accept the tender will rest with the EMPLOYER. The EMPLOYER however does not bind itself to accept the lowest tender, and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever. The whole work may be split up between two or more contractors or accepted in part and not entirely if considered expedient .

Tenders in which any of the particulars and prescribed information are missing or are incomplete in any respect and /or the prescribed conditions are not fulfilled are liable to be rejected.

## **12. DRAWINGS**

Drawings listed under schedule of drawings are intended to give the tenderer an idea of the type of work involved. The drawings as such are only indicative and for tender purpose only. Work shall proceed only on the basis of drawings issued as “Released for construction” which shall be issued to the contractor progressively after the award of contract. No claim shall be entertained from the contractor if the “Released for construction” are at variance with those shown for tender purposes.

## **13 . SUFFICIENCY OF QUANTITIES**

The quantities furnished in the schedule of quantities are only approximate based on preliminary design and are meant primarily to form a common basis for tender analysis. Actual quantities may vary significantly from the quantities given in the schedule. If the value of work as per the schedule does not exceed 25% of the agreed P.A.C the agreed rates shall hold, and the contractor will have no claim on this account. However, if the value of work as per the schedule exceeds 25% of the agreed PAC excluding cost of extra or additional works, an extra payment of 10% will be made for such exceeds.

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#### **14. DATE OF COMMENCEMENT & DATE OF COMPLETION**

Time is the essence of the contract and upon agreement of the contract prices the contractor shall agree to complete the work within 30 days from the date of commencement of work shall be reckoned from the 2nd day of receipt of work order by the contractor from the EMPLOYER .

Date of completion shall be reckoned as the date on which the EMPLOYER after satisfactory inspection of the work takes over the building and passes necessary written communication to that effect to the contractor concerned . As soon as the work is completed and ready for inspection the contractor should inform the EMPLOYER in writing for such inspection .

#### **15. NIGHT WORK AND WORK SCHEDULE**

If night work is necessary to complete the work in time ,the EMPLOYER's prior permission shall be obtained .Night work shall not entitle the contractor to any increase in rates .

Before commencement of the work , the contractor will be required to submit to EMPLOYER a detailed work schedule for completion of the work within the agreed time ,specifically mentioning the time period required for each of the items of work and get the schedule approved by EMPLOYER .No deviation shall be permissible without the concurrence of the EMPLOYER .

The EMPLOYER reserves the right to take out of contract any part of the work and allot it to any agency at the risk and cost of the contractor if in the opinion of the EMPLOYER the progress of work is unsatisfactory .The EMPLOYER shall not entertain any claim from the contractor as a result of such action on the part of the EMPLOYER .

#### **16. FILING OF TENDER**

It is very important that the tender should be submitted complete in every respect including filling up all the questionnaires attached to the tender paper Incomplete tenders are liable to be rejected without assigning any reason .

#### **17. SETTING OUT WORKS**

The Contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels ,dimensions and alignment of all parts thereof . If at any time in the opinion of the

EMPLOYER any error in this respect shall appear during the progress of the work and after approval of the initial setting out by the EMPLOYER the contractor shall be held responsible for its rectification as and when required . No extra cost will be admissible in this behalf

#### **18. CANVASSING**

Canvassing in connection with tender is strictly prohibited and tender submitted by the contractor who resort to canvass will be liable for rejection .

#### **19. CLEARING THE SITE**

The contractor shall at his own expense remove all debris obtained from his works or from other contractors work and clean the building to the entire satisfaction of the Architect/Consultant/Employer, Municipal and other public authorities . No claim shall be entertained for any repeated engagement of labour for such works

**EMPLOYER**

**CONTRACTOR**

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## 6. PRELIMINARY AND GENERAL CONDITIONS OF CONTRACT .

### 1. SCOPE OF CONTRACT

The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Employer /Architect /Consultant . The Employer may in their absolute discretion and from time to time issue further drawings and /or written instructions ,details ,directions and explanations which are hereafter collectively referred to as Employer /Architect /Consultants instructions in regard to .

- a. The variation or modification of the design ,quality or quantity of works or the addition, omission or substitution of any work .
- b. Any discrepancy in the drawings or between the schedule of quantities and /or drawings and or specifications .
- c. The removal from the site of any materials brought thereon by the contractor and substitution of any other material thereof .
- d. The removal and/or re-execution of any works executed by the contractor .
- e. The dismissal from the works of any persons employed thereupon .
- f. The opening up for inspection of any work covered up .
- g. The amending and making good of any defects .

The contractor shall forthwith comply with and duly execute any work comprised in such Employer / Architect /Consultant's instructions .

### 2. CONTRACTOR TO VISIT SITE

The contractor is required to visit the site and satisfy himself as to the facility for transport and storage of materials ,availability of labour ,water ,Electricity etc. and no extra claim under the above headings shall be entertained after the contract has been executed .

### 3. LIQUIDATED DAMAGES

In case the entire work is not completed within the stipulated period due to action or in actions on the part of the contractor, the contractor will be liable to pay liquidated damages as follows : - 0.15% of the total value of work , for each week's delay beyond the date of completion specified in the contract , subject to a maximum of 5% of the total value of the contract after which the contract will stand cancelled .

### 4. INTERIM PAYMENT

Interim payment will be released on the basis of actual executed work and stock of materials

### 5. DEFECTS LIABILITY PERIOD AND RELEASE OF RETENTION AMOUNT

The contractor shall be responsible for the maintenance of the work executed by him for a period of 12 months as specified elsewhere in this contract from the date of completion of works as certified by the Employer /Architect /Consultant and any defects notified to the construction during this period will have to be rectified by the contractor at his own cost .

Retention shall be released on the expiry of the defect liability period

### 6. SUB CONTRACTING

The contractor shall not without the previous sanction in writing by the Employer sublet or execute any Power of Attorney in respect of any matter touching this contract and any such Power of Attorney executed without the above concurrence shall not be recognized or be binding upon the Employer . It shall be entirely within the discretion of the authority accepting the contract either to grant or to refuse or to revoke a sanction once given .

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## **7. SUBLETTING**

Notwithstanding any subletting with such approval as aforesaid and notwithstanding that the Employer shall have received copies of any sub contracts the contractor shall be and shall remain solely responsible for the quantity and proper expeditious execution of the works and the performance of all the conditions of contract in all respects as if such subletting or sub-contracting had not taken place and as if such work has been done directly by the contractor. If any sub-contractor engaged upon the works at site, executes any work which in the opinion of the Employer may issue written notice to the contractor and upon the receipt of such notice the contractor terminate such sub-contract and dismiss the sub-contractor and later shall forthwith leave the works failing which the Employer shall have the right to remove such sub-contractors from the site. No action taken by the Employer under this clause shall relieve the contractor on any of his liabilities under the contract or give rise to any right to compensation, extension of time or otherwise.

## **8. DELAY AND EXTENSION OF TIME**

Time shall be the essence of the contract. The contractor's endeavors shall be to prevent any delay and complete the work within the time agreed. However, on unavoidable circumstances, for reasons supported by documentary proof such as Hindrance register Employer may allow extension of time at their

discretion as may be necessary to complete the work. In case of any extension of time the contractor will be required to execute a supplementary agreement to that effect at his cost.

## **9. TERMINATION OF CONTRACT BY THE EMPLOYER**

If the contractor being an individual or a firm commits any Act of Insolvency or shall be adjudged as insolvent or being an incorporated Company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up made voluntarily or subject to the supervision of the court and the official Assignee or the Liquidator in such act of insolvency or winding up, as the case may be, shall be unable within the seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of Employer /Architect/Consultant that he is able to carry out and fulfill the contract and to give security therefore, if so, required by the Employer.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution or other process of court attaching property to be issued against the contractor

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor,

Or shall assign or sublet this contract without the consent in writing of the Employer /Architect/Consultant obtained.

Or shall charge or encumber this contract or any payments due or which may become due to the contractor hereunder, or if the contractor.

- a. At any time makes default in proceeding with the works with the due diligence and continuous to do so after a notice in writing of 7 days from the Employer /Architect/Consultant.
- b. Commits default in complying with any of the terms and conditions of the contract and does not remedy it within 7 days after a notice in writing is given to him in that behalf by the Employer /Architect/Consultant.
- c. Fails to complete the work or items of work with individual date of completion and does not complete them within the period specified in a notice given in writing in that behalf by Employer /Architect/Consultant.

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- d. Offers or gives or agrees to give any person in Architects service or to any gift or consideration of any kind as inducement or reward or doing or fore bearing to do or having done or fore bone to do any action in relation to the obtaining or execution of this or any other contract for Architect .
- e. Fails to supply sufficient or suitable constructional plant, temporary works ,labour ,material or things
- f. Fails to carry out and execute the works to the satisfaction of the engineer -in-charge .
- g. Employer /Architect/Consultant may without prejudice to any other right to remedy which shall have accrued or shall accrued thereafter to the Employer /Architect/Consultant after written notice ,cancel the contract as a whole or only such items of work in default from the contract as assessed by the Employer .In case the contract as a whole is cancelled due to reasons specified above ,the Employer reserves the right to get the whole of the contract or such items of wok as are cancelled due to reasons of the contractor and that the employer will be at liberty to recover the entire loss from the contractor notwithstanding the amount fixed as liquidated damages under clause 3

#### **10. TERMINATION OF CONTRACT BY DEATH**

If the contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the contractor is a partnership concern and one of the partners dies then unless the Employer is satisfied that the legal representatives of the individual contractor or of the proprietor of the proprietary concern and in the case of partnership ,the surviving partners are capable of carrying out and completing the contract as to its in completed part without the Employer in any way liable to pay any compensation to the estate of deceased contractor and/or to the surviving partners of the contractors firm on account of the cancellation of the contract . The decision of the Employer that the legal representative of the deceased contractor or the surviving partners of contractors firm cannot carry out and complete the contract ,shall be final and binding on the parties. In the event of such cancellation the employer shall not hold the estate of the deceased contractor and/or to partners of the contractors firm liable in damage for not completing the contract .

#### **11. TERMINATION OF CONTRACT DUE TO BANKRUPTCY**

The Engineer shall , as soon as may be practicable after any such entry and termination by the employer ,fix and determine expert ,or by or after reference to the parties or after such investigation or enquiries as he may think fit to make or institute and shall certify .

- a. What amount (if any ) had at the time of such entry and termination been reasonably earned by or would reasonably accrue to the contractor in respect of work then actually done by him under the contract ,and
- b. The value of any of the said unused or partially used materials any contractor's equipment and any Temporary works .

#### **12. ALTERATION**

The Employer may be at any time during the progress of the work by order in writing make any alteration in the original specification and drawings by way of addition there to or omission or other deviation there from whereupon the contractor shall execute such additional work or omit or deviate from such specification and drawings as may be ordered by employer in the same manner as if the same has been so provided in the original specifications or drawings for the works. All alterations to the accepted tender given in writing by the employer/architect/consultant shall be proceeded with by the contractor.

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### **13. REMOVAL OF WORKMEN**

The contractor shall employ in and about the execution of the works only such persons as are skilled and experienced in their several trades and the employer/architect/consultant shall be at liberty to object to and require the contractor to remove from the works any person employed by the contractor in or about the execution of the works who in the opinion of employer/architect/consultant misconduct 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 employer/architect/consultant .

### **14. REMOVAL OF WORKS NOT ACCEPTED**

The contractor shall invariably execute all works in the most substantial and workman like manner and materials used shall be of best description. The contractor shall also confirm minutely to the drawings and specifications which form the basis of the accepted tender and other written instructions and drawings if any relating to the work which may from time to time be issued by the employer/architect/consultant. If it shall appear to the employer/architect/consultant any work has been executed with unsound imperfect or unskillful workman ship or with materials of an inferior description the contractor shall be demand in written forthwith rectify , remove or reconstruct the same in whole or in part as the case may require at his own proper charge and cost and in the event of his refusing to do so within a period to be specified by the employer/architect/consultant or if shall fail to remove from the site of work within a specified period any materials or articles which are considered by the employer/architect/consultant unsound or bad quality, or not agreeable to the terms of the contract and to provide immediately suitable materials or articles in lieu of these condemned then the contractor shall be liable to pay liquidated damages at the rate of 1% of the amount of contract for every day not exceeding ten days that he fails to comply with the written demand of the employer. In case of default on the part of the contractor to carry out such order the employer shall have the power to employ and pay other persons to carry out the same and all expenses consequent there on or incidental there to , as certified by the employer from any monies due or that may become due to the contractor in addition to the penalty mentioned above.

### **15. SAFETY MEASURES AND ACCIDENTS**

The contractor shall provide at his own cost of all necessary safety measures required to protect the public (including their rights and property) as well as his own workmen from accidents arising out of and in consequence of the work under this contract .The contractor shall be responsible for the safety of all employees or workmen, employed or engaged by him in connection with the work and in addition to the staff of the employer employed at the site and that the contractor shall forthwith report to the employer about any accident, any injuries sustained and shall make adequate arrangements for rendering all possible first aid or hospitalization as the case may be in respect of the victims of any accidents.

### **16. INDEMNIFYING THE EMPLOYER BY THE CONTRACTOR**

The contractor shall be liable for any claim or compensation ,damages or expenses payable as a result of any accident or injury or loss sustained by any workman engaged or employed by him or any member of the general public on account of the execution of the contract any the amount he is liable to pay in accordance with WC act or any such legislation or rule or common law, for the above the contractor shall, before commencement of work buy and produce a current insurance policy covering the entire period of the contract from a registered insurance company indemnifying employer/architect/consultant for any such claim compensation damages etc. In case such an insurance policy accepted to the employer/architect/consultant is not produced, the contractor will be deemed to have agreed to the employer to deduct 1% of the running bills and the amount so deducted will be credited to the insurance fund maintained by the employer and the employer will

then undertake the responsibility to meet such claims and that under no circumstances the said 1% deducted shall be returned whether or not there is any accident or claim from any one.

#### **17. PAYMENT OF WAGES , INSURANCE ETC**

It shall also be the responsibility of the contractor to observe the provisions of any other law like the ESI Act ,EPF Act , payment on wages Act, the contract labour abolition and regulation Act etc to the extent they are applicable to him in respect of the workmen engaged or employed by him in or for the execution of the work as per this contract. The contractor shall indemnify the employer/architect/consultant against any claim that may be made on the employer/architect/consultant for any obligation under the said Acts or any amount which may be required to be paid by the employer. The said amount shall be recovered from the contractor by deduction from the amounts due to him or otherwise .The contractor shall keep a muster roll of the labourers engaged by him at site noting their daily attendance and wages. Payment must be made to them at least once in a fortnight and the signature or thumb impression of the workers should be obtained. Such rolls shall be open for inspection and verification by the officials of the employer/architect/consultant when ever found necessary.

#### **18. QUANTITIES**

The quantities in the schedule of quantities approximately indicate the total extend of work, but may vary to any extend and may even be omitted thus altering the aggregate value of the contract.

#### **19. COMPLETION OF WORKS**

The rate quoted by the contractor are for works at site to be completed for all materials ,plant, labour, machinery and tools of every description necessary for executing and completing the works. Any materials brought on to the site by the contractor and not approved by the employer/architect/consultant will be removed and replaced by materials acceptable to the employer at the contractors own cost. A sample of all materials to be used shall have to be got approved by the employer and the same kept at the site for verification. Rate quoted shall be for finished works in site and shall be inclusive of contingent expenses, such as tools and plant scaffolding charges, requisite machinery and cost of operating them, carriage of tools and plant and other appliances ,lighting and watching , tool charges duties sales tax on all materials and articles that may be necessary for the successful completion of the work and setting out and measuring of work etc. No claim for separate payment of any such items will be admitted on any account.

#### **20. EXECUTION OF AGREEMENT**

The successful tenderer will be required to enter into a contract with M/s UNION BANK OF INDIA for the execution and completion of the above work on proper stamp paper. The employer will communicate to the successful tenderer about the acceptance of his tender ,on receipt of which he should remit the security deposit by demand draft and arrange to execute an agreement with the employer within 5 days from the date of receipt of work order.

#### **21. PROCEDURE FOR MEASUREMENTS**

All the works shall be done according to the drawings and instructions of employer/architect/consultant . Figured dimensions shall be followed . Measurements shall be of the actual work done.

All measurements shall be in metric system. All works in progress shall be measured by the contractor and the representative of the employer/architect/consultant jointly. The measurements will be recorded in the presence of the representative of Employer/Architect/Consultant who will check measure presence of the representative of Employer/Architect/Consultant who will check measure.

## **22 TAXES**

Advance income tax together with surcharge and sale tax on work contract/purchase tax and any other taxes , duties , fees, cesses or levies for the work will be deducted from the bill as per rules current at the time of passing the bill.

Tax on works contract as per Kerala Finance Act or any other statute rules or regulations will be the liability of the contractor. Rates to be inclusive of all prevailing taxes including GST .

## **23. PREPARATION AND CERTIFICATION OF INTERIM AND FINAL BILLS**

The bill will have to be prepared by the contractor and the same will be check measured by the employer/architect/consultant or his representative.

## **24. EXTRA ITEMS**

Items which do not find a place in the original tender or in the accepted tender and agreement executed by the contractor shall be deemed as extra items. Such items found necessary to be carried out in the course of construction of the agreed work shall also be carried out by the contractor on written order issued by Employer/Architect/Consultant and executing a supplemental agreement for the purpose between the contractor and the employer. For carrying out extra items not include in the agreed schedule rate will be based on the market rate of materials and labour plus contractors profit of 10%.The decision of the employer/Architect/consultant about the market rate of materials and labour will be binding on the contractor.

## **25. ALLIED ITEMS**

Allied items or identical items shall be items other than original quoted items or extra items. When minor modifications to quoted items are introduced without basically changing the character of the original item by introducing components of new materials such items shall be called as identical allied items.

The rates for such items shall be derived based on the original items plus or minus cost of components introduced or excluded. The rate for the new components part of items shall be worked out on the same basis as followed for extra items for which supplemental agreement will have to be executed between the employer and the contractor.

## **26. MODE OF MEASUREMENTS**

Mode of measurements will be as per IS 1200 or as per latest revisions.

## **27. WATER AND ELECTRICITY**

Water and electricity for the construction purposes will have to be arranged by the contractor and his own cost and risks and bill for its consumption if any , will have to be paid by the contractor.

## **28. WATCHING AND LIGHTING**

The contractor shall provide and maintain at his own expenses ,all lights ;guards ;fencing and watching when and where necessary or required by employer/architect/consultant for the protection of the works or for the safety and convenience of those employed on the works or the public .

## **29. LABOUR LAWS AND SAFETY REGULATIONS**

- a. Contractor shall be responsible for making good at his own cost to the sanction of the Employer any loss and damages to any structures or properties belonging to the owner or other agencies or persons if such loss or damages was caused on account of the execution of the work .

- b. The contractor shall keep the employer/architect/consultant indemnified for the all claims for damage to property for arising under or by reason of this agreement if such claims result from the fault and or negligence or willful acts or omission of the
- c. contractor ,his employees ,representative or subcontractors as certified by the employer/architect/consultant .
- d. Should the Employer have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the Employer shall be charged to and paid by the contractor and contractor shall not be at liberty to dispute or to question the right of the Employer to make such payments notwithstanding the same may have been made without his consent or authority .
- e. The contractor shall indemnify the employer/architect/consultant and every member ,officer and employee of the employer also the Engineer in charge and his staff against all actions ,proceedings ,claims demands ,cost and expenses which may be made against the employer/architect/consultant for or in respect of or arising out of any failure by the contractor in the performance of his obligations under the contract .
- f. No labourer below the age of fifteen yrs shall be employed on the work .
- g. The contractor shall not pay less than what is provided under law to labourers engaged by him on the work .
- h. The contractor shall at his expense comply with all labour laws and keep the Employer/Architect/Consultant indemnified in respect there of .
- i. Before commencement of the work the contractor will have to obtain a license under the provisions of the contractor labour (Regulation and Abolition Act 1970) and produce the same before the Employer .

### **30 SUPERVISION**

The contractor should arrange for at least 3nos of qualified and well experienced Engineers out of which one should be graduate to be employed by him to supervise the work during progress whose bio-data should be forwarded to the Employer/Architect/Consultant for approval .

The contractor shall also give representatives of the Employer/Architect/Consultant all necessary facilities for inspection ,testing and examining any part of the works .

### **31. MATERIALS AND WORKMANSHIP**

It shall conform to their representative description and to Employer/ Architect/Consultant's approval .All works shall be carried out as prescribed in the specifications and in accordance with Employer/Architect/Consultants Instructions ,and the contractor shall upon the request of the Employer/Architect/Consultant instructions, furnish him with all invoice accounts receipts and other vouchers to prove that the materials comply there with . The contractor shall at his own cost arrange for and carry out test of any materials which the employer may require.

### **33. SETTLEMENT OF DISPUTES**

All disputes and difference of any kind what ever arising out or in connection with the contract or the carrying out of the works (whether during the progress of work or after their completion and whether before or after the determination abandonment or breach of the contract)shall be settled by the employer who shall state its decision in writing. Such decisions may be in the form of a final certificate or otherwise. The decision of the employee shall be final.

### **34.JURISDICTION**

The courts at **KOTTAYAM** alone shall have jurisdiction in respect of any matter arising out or in connection with the contract.

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## 7. SPECIAL CONDITIONS OF CONTRACT

### 1. SPECIFICATION

All the supplies and works relating to the wiring of lighting /fan and other power installations points in the building shall be carried out in accordance with the relevant provisions in the following :

- 1.The Indian Electricity Rules 1956
2. The Indian Electricity Act 1908
- 3.The National Electricity code 1985
- 4.The Indian Standard Specifications
5. The Indian Standard Code of Practice
- 6.The Tariff Advisory Committee Regulations
- 7.Specification in the Contract
- 8.Practise approved by the Electrical Inspectorate
- 9.Manufactures Instructions
- 10.Instructions of the Employer .

All the publications referred to above shall be their latest version including all the revisions and amendments made up to the date on which reference will be made to them . Where relevant Indian Standard Specifications or Codes of Practice are not available reference shall be made to the latest B. S or I.E.C Standard Specifications and Codes and Practice.

### 2. INSPECTION ON RECEIPT

All the equipments ,accessories and materials shall be inspected for damages ,defects ,shortage and any other discrepancy immediately on receipt at the site. If any damage ,defects shortage of discrepancy is detected ,immediately corrective action shall be taken under advice to all the parties concerned .All the defective and damaged materials shall be removed from the site immediately under advice to the employer and with his approval .

### 3. STORAGE

All the equipments ,materials and accessories shall be stored in a clean ,dry ,well ventilated and secured places .

### 4. MATERIALS

The materials used shall be of approved make and type . Where approved makes are not specified ,the materials used shall of good quality of ISI make and the supplies of such materials shall be effected only with the prior written approval of the Employer /Consultant

### 5. CIVIL WORKS

It shall be the responsibility of the contractor to carry out all the necessary civil works such as chipping of floor and walls ,grouting making holes ,grooves and chases ,filling and fixing etc ,found necessary for fixing of any equipments ,components cable racks cable trays ,supports ,frame works wiring and earth conductors ,brackets etc ,and the expenses for these shall be deemed to have been included in the rates quoted by he contractor.

### 5. ERECTION

The contractor shall carry out the erection works in accordance with the practice and standards in conformity with the relevant rules specifications codes of practice and regulations as detailed under clause 41 hereof .

Erection work shall be carried out in keeping with he most modern and good engineering practice according to the programme approved by the Engineer /Consultants. Erection work shall be carried out in conformity with the manufactures instructions relating to the installations.

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During every stage checks ,tests and measurements shall be carried out to detect any defect and / or error so that timely corrective action can be taken .

Proper tools and tackles shall be used to carry out the erection work .All precautions shall be taken out to ensure that the erection work is carried out without causing any danger to personal ,plant or property .

#### **7. TESTING ,COMMISSIONING AND TRIAL RUN**

The contractor shall carry out all tests according to relevant standards on the various equipments supplied by him and furnish the tests results to the Engineer Consultants. The contractor has to submit a list of equipments /materials for his work and get the approval from the Engineer /Consultants if any , on the materials required test before dispatch . If the test shall be carried out on the equipments before dispatch from the place of manufacture and if the Engineer decides so ,such tests shall be carried out in the presence of the engineer and/or his representative and dispatch shall be effected only after the Engineer certifies in writing that the results of the tests are satisfactory and the equipment confirm to the specifications as per the contract .

At any stage during the erection and after completion of erection before commissioning and during trial run every equipments and every part of the installation shall be tested in conformity with the relevant standards ,codes of practice ,requirements of the Electrical Inspectorate ,requirements of the manufacture and as per the instructions of the engineer

All such test shall be carried out in the presence of the engineer and his representatives and all the test results shall be furnished in triplicate to the Engineer .

After commissioning the installations, they shall be run for a period to be prescribed by the engineer under normal and permissible overload conditions for accessing the performance of the installations .The installations shall be taken over by the Employer only after the satisfactory completion of all tests ,commissioning and trial run .

#### **8. QUALITY EQUIPMENTS AND MATERIALS**

The contractor shall use only equipments and materials of approved quality in he works. Whatever approved makes as specified ,in the tender documents only one of the approved makes shall be used ,where approved makes are not mentioned in the tender documents the contractor shall get the sample of equipments and materials he proposes to supply approved by the Engineer/Consultants in writing .

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## 8.SAFETY DURING EXECUTION OF WORKS

1. All possible care and precautions shall be taken to prevent any injury or danger to persons, animal and property during the execution of he works.
2. As far as electrical works are concerned all the safety practices are recommended in the following shall be strictly follows :
3.
  - a. The Indian Electricity Rules 1956
  - b. The National Electricity code 1985
  - c. The Indian Standard Specifications
  - d. The Indian Standard Code of Practice
  - e. The Tariff Advisory Committee Regulations

All these publications shall be their latest versions including all the amendments and versions made up to the date on which the references will be made to them . Where relevant Indian standard specification or code of practice are not available ,reference shall be mad to the latest version of the relevant BS and IEC standard specification and code of practice.

4. During the item when the work is going on at the site ,persons well trained in artificial resuscitation and other treatment o should be available a site for giving treatment o any one suffering from electrical shock .
5. All required first aid applications and materials shall be readily available at site and shall be quickly accessible for use during an emergency.
6. Any person who is required to be hospitalized shall be taken to the nearest public hospital without any loss of time .
7. Scaffolding provide for workmen shall be strong ,stable and safe .They shall be tested for safety and shall be continuously inspected for any possibility of failure or danger .
8. No portable single ladder more than 8 meter long should be used . The minimum clearance between he runs between the side rails shall be 300mm and the distance between adjacent rungs shall no be more than 300m.Whenever a ladder is used ,an extra workmen shall be engaged to hold the ladder .
9. All excavated trenches and pits shall be surrounded with temporary fencing. These shall be lit during nights and adequate warning notices and lights shall provided .
10. Opening in the slabs and floors shall be temporarily fenced off to prevent accidental falling of people or materials trough these opening . Continuous shafts such as those provided for rising main etc shall be effectively blocked at every floor till these openings are covered up after installation of the equipment .These blocks shall be removed only where I is necessary o work and shall be suitably closed before leaving he location .

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11. workmen shall be provided with hand gloves, welding goggles protective footwear, safety helmets, safety belts, etc, as required for the work they are expected to carry out .
12. While housing materials ,care shall be taken to ensure that the hoisting machines or tackles do no fall and that all the anchorages ,supports ,etc are in perfect conditions .
13. The works shall be carried out under the supervision of experienced persons so as for avoid any danger to workmen or property during the execution of the various works .
14. Before energizing any portion of the installation ,all the relevant and required inspection ,checks and tests shall be carried out and also all necessary precautions should be taken to avoid danger and/or damage .
15. The provisions in section 16 of part 1 of the National electrical Code relating to safety during the electrical works shall be strictly followed .

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## 9. TECHNICAL SPECIFICATION

### 1. SPECIFICATION FOR DISTRIBUTION BOARD

The distribution board shall be installed in a clean, dry and well ventilated area. The access to the board and area in front of the board shall always remain free without any block or hindrance. The DB should be installed recessed on the wall.

There shall be suitably rated ELCB on the incoming side of the board, wherever specified. Required facilities for drawing and terminating the incoming cable and outgoing cables to the distribution board shall be made.

All internal wiring shall be terminated using proper crimped type cable lugs. The connection shall be made in such a manner that there will be good electrical and mechanical contact.

All the internal wiring shall be numbered and fixed with ferrules for easy identification.

The enclosure shall be provided with earthing terminals. There shall be an engraved identification label. A printed circuit list shall also be exhibited. The DB shall be with acrylic door of the manufacturer.

All the civil works in connection with the installation of the board shall be carried out by the contractor at his cost and responsibility. Provision for this shall be made while quoting the rates.

### 2. Specification for supply and installation of cable inspection on receipt

Immediately on receipt at the site, the cables shall visually be inspected for signs of any damage or defect. If any sign of damages or defect is observed further investigation shall be made and necessary corrective action shall be taken immediately and under advice to all the parties concerned.

### LOCATION OF INSTALLATION

While selecting the cable routes care shall be taken to avoid areas where the ambient temperature is likely to exceed. The cables shall be well-protected against the effects of the high temperature if required special cables shall be used.

Cables buried under roads and areas where heavy loading can occur shall be protected by enclosing them in ducts of adequate strength and cross section area.

Surface mounted cables wherever they are exposed to the possibility of a mechanical injury or shock, shall be protected against such injury and shock.

Cables route shall be chosen giving due consideration to the following:

1. Safety of the cables from possible damage due to the mechanical, chemical, thermal or other causes.
2. Minimization of the length of the cable route.
3. Neatness of arrangements.
4. Facility for inspecting, replacing or removing cables laid along a particular route or for adding cables to the cables already laid along a particular route.
5. Availability of space for proper bending and shaping of the cables without causing any strain on the cable.
6. Protection from fire.
7. Segregation of cables to different working voltages.
8. Minimization of crossing of cables
9. No joints shall be permitted in the cable installation

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## EARTHING BUS AND CONDUCTORS

All earthing conductors shall be of bare copper and of sizes approved by the electrical inspectorate .

The pipe earth shall be installed around the sub station building/or as directed .

Earthing conductors, except when buried or drawn through pipes ,shall be clamped at regular intervals not exceeding 600mm .The earthing conductors shall be well protected against possibility of pilferage, mechanical damage and corrosion .

To facilitate easy connections ,suitable offsets shall be provided at required locations on the earthing buses.

The contractor shall prepare detailed drawings showing the proposed routes of all earthing buses and continuity conductors and get them approved by the employer before commencement of installation of the earthing system .

The fixing of earthing conductors shall be done using specially fabricated clamps and not by drilling holes on the conductors itself and screwing it to the wall or other surfaces .

The earthing conductors shall as far as possible be installed out of reach of any person

As far as possible all earth connections shall be visible for inspection .

All earthing connections shall be made with due care to ensure good mechanical strength and electrical contact .

All joints wherever disconnection is not required shall be reverted. All joints shall be overlapped at least twice the width of the strip .

While earthing on the body of the equipments which may move ,suitable allowance for such movement shall be made by providing required flexible copper earthing conductor installed properly.

Bolts/nuts and where ever used for making connections in earthing system shall be of Galvanized steel .

A link of adequate size and good mechanical and electrical design shall be provided in the neutral earthing circuit to facilitate easy disconnection of earth for testing purpose

Any special earthing as required by the Employer shall be carried out by the contractor subject to the approval of the employer .

After completion of the work the contractor shall prepare an installed drawing of the complete earthing system indicating the Routes of earthing buses, earth continuity conductors and location of earth electrodes

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## **LIGHT AND SMALL POWER ELECTRIFICATION**

### **1. CONDUIT INSTALLATION**

The conduit used in the installation shall be medium gauge (1.6 mm wall thickness) PVC of ISI GRADE. All the conduits should carry one run of 14/16 SWG bare copper earth conductor which is to be terminated to the earth terminal of the metallic mounting boxes .

All conduits should be embedded in ceiling slab /walls wherever possible .

The wiring installation shall be of concealed type.

### **CONTROL SWITCHES FOR LIGHTS AND FANS**

The switch shall be mounted at the height of 1450 mm from finished floor lvl and to be .250 mm away from water service outlet .In case of difficulty in installing the switches above the fixing center shall be decided in the consultation with the Architect /Employer

### **SWITCHING SOCKET OUTLET**

All the sockets are to be of 3 pin type and shall have a combined switch . The plug tops should not be possible to inter change with the plug socket of any other voltage system other than 230 volts AC and also with other services like telephone and telex

The socket should have same polarity through out the building as per standard (Right - Phase, Left-Neutral )

The plug socket shall be fixed at the height of 1450mm finished floor lvl and shall be away from danger of mechanical injury .

The earth pin of the socket shall be connected to the earth terminal of the box by using 2 sqmm flexible PVC insulated copper wire of colour green .

### **MOUNTING BOXES**

The mounting boxes for switch, sockets and light points shall already made standard GI Zinc passivated MS box suitable for the plate switches . There shall be at least one earthing terminal in the box with necessary washer and nuts.

### **TOILETS**

Unless otherwise specified ,no switch nor sockets shall be located inside a toilet. The exhaust fan in toilets should be controlled along with the bathroom light . In case of 15 A sockets for water heaters ,the same shall be located at 500 mm below roof slab .

### **EARTH**

An earth conductors of 14 SWG bare copper shall run through the entire conduit installation and shall be connected to the metallic boxes /metal body of the fans and light fittings. The connections from the earth terminal of the box to the body of the appliance /fittings should be done using 2 sqmm flexible PVC insulated copper wire of colour Green.

All the conductors shall be connected to the earth connectors strip of DB. The DB earth connectors strip shall be connected to the main earth bench by 2 runs of appropriate size copper wire.

### **GENERAL**

All light fittings shall be installed at a height of not less than 2500mm or as specified separately ( from finished floor lvl ) unless otherwise specified the clearance from bottom most point of the ceiling fan and the finished floor shall not less than 2400mm.The minimum clearance between the ceiling and the plane of the blades shall not be less than 300mm

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The bottom most point of the exhaust fan shall not be at a height not less than 2400 mm

All the ceiling roses are to be 3 terminal type to facilitate earth bonding between the fittings and earth wire.

No switch boards/distribution board shall be erected above gas stoves or sinks or within 2500 mm of any water outlet. All distribution board shall not be mounted at height more than 2000mm from finished floor lvl.

In a single switch box only one phase shall appear.

In case of three phase installation. RYB & Black colour code shall be adopted for circuits wiring.

Unless otherwise specified the Main and branch circuits installation to be done by 28/0.3(2.5 sqmm) PVC insulated single core copper wire the maximum load per lighting circuits shall be 800 W. The 15A switch socket outlet shall be wired using 44/.3 copper (3 sqmm ) in general ,unless otherwise specified .

The wiring installation throughout the building shall be such that there is no break in the neutral wire other than in a mounting /junction box. Unless otherwise specified the branch circuit wiring shall be done in loop-in-loop -out system. All joints shall be made of approved type connectors and be only one side mounting /junction boxes.

## APPENDIX

<b>EARNEST MONEY DEPOSIT</b>	: Rs.2500/-
<b>RETENTION MONEY</b>	: 10% of the total value of work including EMD
<b>DEFECTS LIABILITY PERIOD</b>	: One year from the date of handling over Completed site

### **DATE OF COMMENCEMENT OF WORK:**

3 days from the date of signing of agreement or from the date of handling over the premises whichever is earlier.

### **DATE OF COMPLETION OF WORK:**

30 days from the date of signing of agreement or from the date of handling over the premises whichever is earlier

**INCOME TAX DEDUCTIONS:** On all payments as applicable from time to time

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
Sl. No.	Items/ Products	Name of Brand / Make
1	Automatic Transfer Switch (ATS)	VERTIV, APC, RIELLO, PILLER, EPI, SOCOMEC, GE, L&T
2	Automatic Voltage Regulators (AVR)/Servo-SCVS	AUTOMATIC ELECTRIC (AE), KRYKARD
3	<b>CABLES, END TERMINATIONS &amp; ACCESSORIES</b>	
b	Armoured LT Power Cable (PVC & XLPE)	UNISTAR, GLOSTER, POLYCAB, HAVELLS, RPG, CCI, TORRENT, KEI, FINOLEX, RALLISON V-GUARD, BONTON
d	Telephone Cable	POLYCAB, HAVELLS, RPG, FINOLEX, LAPP, V-GUARD
e	PVC Wires (FRLS/ FRLSH / FR-ZH / FR-HR)	LAPP, FINOLEX, GLOSTER, ANCHOR, RR-KABEL, POLYCAB, V-GUARD
f	Cable Jointing Kits:HT/LT	RAYCHEM, M-SEAL [3M], DENSON, GEE SEAL
g	Cable Trays (FRP, Hot Dip GI / Electro Galvanised) (Perforated / Ladder / Wire Mesh)	CABLOFIL (LEGRAND), SUMIP COMPOSITES, PROFAB, SINTEX, INDIANA, OBO-BETTERMAN, PATNY SYSTEMS, L&T
4	Cable Management System/Underfloor Raceways	OBO BETTERMANN, LEGRAND, MK, CENTAUR, EUBIQ
5	<b>EARTHING, LIGHTNING PROTECTION &amp; ACCESSORIES</b>	
a	Maintenance-free earthing System	OBO BETTERMANN, CAPE ELECTRIC, ERICO, ASHLOK
b	Lightning Protection Accessories	OBO BETTERMANN, CAPE ELECTRIC, ERICO, DHEN
c	Exothermic Welding	OBO BETTERMAN, ERICO (GEM), CAPE ELECTRIC, JMV LPS
6	<b>FANS- CEILING/ EXHAUST/ WALL/ PEDASTAL</b>	
a	Ceiling (Star Rated), Exhaust, Wall/ Pedestal Fans	USHA, ORIENT, KHAITAN, BAJAJ, HAVELLS, CROMPTON
b	BLDC Ceiling Fans	USHA, ORIENT, HAVELLS
c	Air Circulator Fans	ALMONARD, KHAITAN, BAJAJ, CROMPTON
7	Junction Box /TJB/ Switch box & Distribution Boards (Thermoplastic/ Polycarbonate/FRP/GRP/SMC/SS)	HENSEL, SPELSBERG, BCH-ELECTRIC, ABB, SINTEX, FIBOX, PUSTRON, SAFY BOX
8	<b>LIGHT FIXTURES &amp; ACCESSORIES</b>	
a	Light fittings (Indoor)#	PHILIPS, WIPRO, OSRAM,BAJAJ, HAVELLS, CROMPTON GREAVES, LIGHTING TECHNOLOGIES
b	Light fittings (Outdoor applications only)#	PHILIPS, WIPRO, OSRAM,BAJAJ, HAVELLS, CROMPTON GREAVES, LIGHTING TECHNOLOGIES, K-LITE # LEDs SHALL BE OF NICHIA, CREE, OSRAM, PHILIPS LUMILEDS, CITIZEN & SEOUL SEMICONDUCTORS MAKE ONLY

c	Solar Street light (Standalone)	PHILIPS, BAJAJ, TATA POWER, OR ANY MNRE APPROVED VENDOR IN CURRENT YEAR
d	Emergency Light Fittings with self-contained Batteries	PHILIPS, EVEREDY, WIPRO
e	Lamps, Controlgears & Accessories	PHILIPS, WIPRO, OSRAM,BAJAJ, HAVELLS, CROMPTON GREAVES
9	LT Power Capacitors	SCHNEIDER, EPCOS, L&T, VISHAY, SPRAGUE, SIEMENS, ABB, SREEEM
<b>10</b>	<b>LT SWITCHGEARS / BREAKERS</b>	
a	Miniature Circuit Breakers (MCBs) & Distribution Boards	LEGRAND, SCHNEIDER, ABB, GE, SIEMENS, L&T, HAGER
b	Earth Leakage Circuit Breakers (RCBO/RCCBs)	LEGRAND, SCHNEIDER, ABB, GE, INDO ASIAN, SIEMENS, L&T
c	MCCBs and ACBs	SCHNEIDER, L&T, ABB, SIEMENS, LEGRAND
f	Changeover Switches	L&T, SIEMENS, SCHNEIDER, HPL
g	MV Switch fuse units & Isolators	SCHNEIDER, L&T, ABB, SIEMENS, GE
<b>11</b>	<b>MEASURING INSTRUMENTS</b>	
a	Measuring Instruments (Analog & Digital meters, Data Loggers & Event Recorders)	L&T, SCHNEIDER, MECO, CIRCUTER, AE, SECURE, ELMEASURE, RISHAB, KRYKARD, L&T, LEGRAND
b	Single & Three phase Energy Meters	SCHNEIDER, SIEMENS, CIRCUTOR, L&T
<b>12</b>	<b>PIPES PVC/ MS</b>	
a	PVC Conduits for Wiring	A-ONE PLAST, KONSEAL, BALCO
b	MS Conduits for Wiring	GUPTA/ BHARAT/ BEC-ISI
<b>13</b>	<b>RELAYS</b>	
b	Protective Relays (Electromechanic & Numeric)	ABB, SEIMENS, L&T, EASUN RAYROLE, SCHNEIDER, C&S, PROK DV's
c	Electronic time switch, Time delay relay, Timer	LEGRAND, L&T, HAGER, SIEMENS, ABB, SCHNEIDER, GE
<b>14</b>	<b>Shock-Proof Insulation Mat &amp; Paint</b>	SAFEVOLT, STANVAC, ELECTROMAT, HILTI
<b>15</b>	<b>Surge Protection Devices (SPDs)</b>	OBO BETTERMANN, LEGRAND, SCHNEIDER,SIEMENS, ABB, ERICO, DHEN,RAYCAP, NOVARIS
<b>16</b>	<b>SWITCHES &amp; SOCKETS</b>	
a	Modular Switches & 5A/15A Sockets Fan Regulators/ Voice Outlets RJ-11	LEGRAND, ABB, MK, CRABTREE, NORTH-WEST, ANCHOR-ROMA, L&T, SCHNEIDER
b	Sockets & Plugs (with Polycarbonate/FRP/ Metal Clad Body)	ABB, LEGRAND, NORTH-WEST, BCH, SCHNEIDER, CRABTREE, SALSER,CROMPTON, HENSEL
<b>17</b>	<b>UPS SYSTEM</b>	VERTIV, APC, REILLO, PILLER, EPI, SOCOMEC, NUMERIC (LEGRAND), EATON, KELTRON, APLAB, DELTA, DUBAS, CONSUL- NEOWATT
<b>18</b>	<b>UPS SYSTEM (MODULAR)</b>	VERTIV, APC, DELTA, SOCOMEC, ABB,NUMERIC (LEGRAND), RIELLO
<b>19</b>	<b>UTP CABLES/ DATA SYSTEM/ LAN/ voice</b>	
a	UTP CAT 6/5e Data Cable	KRONE/ MOLEX/ AMP/ SEIMENS
b	Amoured Data Cable	BELDEN/ AVAYA

c	LAN Information Outlets RJ-45	KRONE/ MOLEX/ AMP BELDEN/ SEIMENS/ MK/ LEGRAND
d	Ethernet Switches	ARUBA, CISCO, HP, 3COM, NETGEAR
e	LAN Patch Panel	KRONE/ MOLEX/ AMP/ SEIMENS
f	Network Racks	VALRACK, EPSILON, HAUNUT, NETRACK
g	Wireless Access Point	CISCO/ ARUBA / D-LINK/ 3 COM
h	IDC type Telephone Connectors/Terminal Blocks	KRONE/ MOLEX.
i	Wireless Access Point	CISCO/ ARUBA / D-LINK/ 3 COM

**SCHEDULE OF QUANTITY FOR ELECTRIFICATION OF M/S.UNION BANK OF INDIA,  
RAJAKUMARI BRANCH**

**A-POWER SUPPLY**

Sl. No	Description Of Works/ Materials	Unit	Qty	Rate	Amount
<b>I</b>	<b>PART-1 (POWER SUPPLY)</b>				
<b>1</b>	<b>M. V PANELS/ DISTRIBUTION BOARDS</b>				
<b>1.1</b>	<b>KSEB METERING CUBICLE</b>				
<b>a.</b>	Supply and fixing of CT Type KSEB metering cubicle made out of 16CRCA sheet powdercoated with approved shade consists of 100A TPN SFU with 80A HRC Links ,100A Bakelite HRC cutout with 80A HRC fuse Links with 100A Bakelite Type Neutral Link & provision for CT operated KWH meter.				
	Supply:	Each	1.00		
	Installation:	Each	1.00		
	<b>OPTIONAL ITEM</b>				
<b>b.</b>	Supply and fixing of CT Type KSEB metering Equipments including 100A MCCB, set at 63-80A , 100A Bakelite HRC cutout with 80A HRC fuse Links, 100A Bakelite Type Neutral Link & making provision for CT operated KWH meter and CTs. This work includes all retro fitting / fabrication, replacement of Panel/ Chamber Doors OR Modification works within the existing Metering Panel, etc. complete as per standards and requirements as per the directions of the EIC.				
	Supply:	Each	0.00		
	Installation:	Each	0.00		
<b>1.2</b>	<b>MAIN DB-01 - SPLIT DB</b>				
	Supplying,installing,testing &commissioning of 3 Ph 4 way,vertical busbar,MCCB type Power Distribution Board, 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, double door, IP42, with all connections and inter-connections and comprising the following Specific Components. (MDB)				
	<b>Incomer</b>				
	1 No. 80A 4P, 25kA [Ics], MCCB set 63-80A, with Shunt Trip [Wired from EL R]				
	EL Relay [Electronic 0-300mA] with CBCT [ID-100mm]				
	<b>Outgoings</b>				
	1 Nos. 63A, 3P MCB [ Main DB-2]				
	1 Nos. 40A, 3PMCB [UPS Power]				
	2 Nos. 32A, SPMCB [Spare]				
	3 Nos 10A SP MCB for Signage Etc. 1 Nos SP Dummy				
	<b>Bus Bars</b>				
	125A Copper bus bars for phase and neutral.				
	Supply:	Each	1.00		
	Installation:	Each	1.00		
<b>1.3</b>	<b>MAIN DB-02</b>				

	Supplying, installing, testing & commissioning of 3ph 8way, vertical busbar, MCCB type Power Distribution Board, 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, double door, IP42, with all connections and inter-connections and comprising the following Specific Components. (MDB).				
	<b><u>Incomer</u></b>				
	1 No. 63A 4P, 25kA [Ics], MCCB set 50-63A, with Shunt Trip [Wired from EL Relay]				
	EL Relay [Electronic 0-300mA] with CBCT [ID-100mm]				
	<b><u>Outgoings</u></b>				
	1 Nos. 50A, 3P MCB [ Power DB]				
	2 Nos. 25A, 3PMCB [LDB & Spare]]				
	Outgoings: : 3 Nos 20A, SP MCB (1TR-AC, Spare), 3 No 25A TP MCB (AC, LDB), 4 Nos 25A, SP MCB (AC, Power Points) and 5 Nos 16A SPMCBs, 3 Nos MCB Dummys. All MCBs shall be 10kA Rating.				
	<b><u>Bus Bars</u></b>				
	125A Copper bus bars for phase and neutral.				
		Supply:	Each	1.00	
		Installation:	Each	1.00	
<b>1.4</b>	<b><u>DB [POWER POINTS-ATM] OPTIONAL</u></b>				
	Supply, installation, testing and commissioning of 4 way TPN MCB DB with the following:				
	Incomer 63A, 4P, 100mA RCBO				
	Outgoings: : 4 Nos 20A (1TR-AC), 3 Nos 32A (2TR-AC) and 2 no 25A (1.5Tr AC, Power points) ,3 Nos 16A SPMCBs, 10kA				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
<b>1.5</b>	<b><u>DB [LIGHTING POINTS]</u></b>				
	Supply, installation, testing and commissioning of 4 way TPN MCB DB with the following:				
	Incomer 25A, 4P, 30mA RCBO				
	Outgoings: 8 Nos 6A and 2 Nos 10A SP MCBs				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	
<b>1.6</b>	<b><u>DB [POWER POINTS-BANK] OPTIONAL</u></b>				
	Supply, installation, testing and commissioning of 6 way VTPN MCB DB with 4 Pole, RCBO Incomer and the following:				
	Incomer 63A, 4P, 100mA RCBO				
	Outgoings: : 4 Nos 20A, 3 Nos 32A, 2 no 25A and 3 Nos 16A SPMCBs, 10kA with suitable number of SPMCB Dummys				
		Supply:	Nos	2.00	
		Installation:	Nos	2.00	
<b>1.7</b>	<b><u>UPS POWER DISTRIBUTION</u></b>				
a.	<b><u>UPS DB [UPS POWER SPILT DB (BANK &amp; ATM )</u></b>				
	Supply, installation, testing and commissioning of 8way [4+4 Module] SPN MCB DB with the following:				
	Incomer 40A, 2P, MCB Isolator				
	Outgoings: 25A, D-Curve DPMCBs - 2 Nos.				
		Supply:	Nos	1.00	

		Installation:	Nos	1.00		
b.	<b>UPS DB - BANK</b>					
	Supply, installation, testing and commissioning of 12 way [12+4 Module] SPN MCB DB with the following:					
	Incomer 40A, 2P, 30mA RCBO [High Immunity Type Legrand OR Equivalent]					
	Outgoings: 6A/10A/20A, D-Curve SPMCBs - 10 Nos.					
		Supply:	Nos	1.00		
		Installation:	Nos	1.00		
b.	<b>UPS DB (Critical load DB)</b>					
	Supply, installation, testing and commissioning of 8 way SPN MCB DB with 2 Pole, RCBO Incomer and the following:					
	Incomer 40A, 2P, 30mA RCBO [High Immunity Type Legrand OR Equivalent]					
	Outgoings: 20A, D-Curve SPMCBs - 4 Nos.					
		Supply:	Nos	1.00		
		Installation:	Nos	1.00		
<b>1.8</b>	<b>UPS CONTROL [INPUT]</b>					
a.	Supply, installation, testing and commissioning of 40, 4P, 100mA, RCBO with in suitable factory manufactured MS enclosure with all interconnections and wiring.					
		Supply:	Nos	1.00		
		Installation:	Nos	1.00		
b.	Supply, installation, testing and commissioning of 40, 2P, 100mA, RCBO with in suitable factory manufactured MS enclosure with all interconnections and wiring.					
		Supply:	Nos	1.00		
		Installation:	Nos	1.00		
<b>1.9</b>	<b>RAW POWER POINTS</b>					
a.	Supply, installation, testing and commissioning of 32A Modular type DP switch control with in suitable sheet steel enclosure (Control Switch for Stabiliser out Put and Electrical Room and 1 Phase A/C Local Isolation)					
		Supply:	Nos	6.00		
		Installation:	Nos	6.00		
b.	Supply, installation, testing and commissioning of 1 Nos. 16/20A, Multi Pin modular type socket with 1 No. 16A SP control switch mounted in a suitable M.S box with modular front plate, including all inter connections. (Power Points & AC Indoor Points)					
		Supply:	Nos	6.00		
		Installation:	Nos	6.00		
c.	Supply, installation, testing and commissioning of 1 Nos. 6A, 5 pin modular type socket with 1 No. 6A SP control switch mounted in a suitable M.S box with modular front plate, including all inter connections. (Customer area, Electrical Room.)					
		Supply:	Nos	8.00		
		Installation:	Nos	8.00		
d.	Supply and installation 16A 2P +E-DP ,Legrand make Tempra plug and socket with 10A DP MCB etc ., complete (Total control for Strong Room)					
		Supply:	Nos	1.00		
		Installation:	Nos	1.00		
e.	Supply and installation 20A 2P +E-DP ,Legrand make Tempra plug and socket with 20/25A DP MCB etc ., complete (AC Control Circuit at Electrical Room at input to Stabiliser)					
		Supply:	Nos	6.00		
		Installation:	Nos	6.00		

f.	Supply, installation & testing Legrand make 24hrs, modular timer (MicroRex-4128) in a suitable steel enclosure for ATM sign board, Branch sign board and UPS room exhaust fan				
		Supply:	Nos	3.00	
		Installation:	Nos	3.00	
<b>2.0</b>	<b><u>RAW POWER COMPUTER POINTS</u></b>				
a.	Supply, installation, testing and commissioning of 1 Nos. 6A, 5 pin modular type socket with 1 No. 6A SP control switch mounted in a suitable M.S box with modular front plate, including all inter connections. (Work stations/ Cabins etc.)				
		Supply:	Nos	9.00	
		Installation:	Nos	9.00	
<b>2.1</b>	<b><u>UPS COMPUTER POINTS</u></b>				
a.	Supply, installation, testing and commissioning of 1 Nos. 16/6A, Multi Pin modular type socket with 1 No. 16A SP control switch mounted in a suitable M.S box with modular front plate, including all inter connections. (UPS Power Points ATM, CDM, PBP & Rack.)				
		Supply:	Nos	6.00	
		Installation:	Nos	6.00	
b.	Supply, installation, testing and commissioning of 3 Nos. 6A, 5 pin modular type socket with 1 No. 16A SP control switch mounted in a suitable M.S box with modular front plate, including all inter connections. (All work stations)				
		Supply:	Nos	9.00	
		Installation:	Nos	9.00	
<b>1.8</b>	<b><u>LOCAL ISOLATION FOR TOTAL POWER TO BANK</u></b>				
a.	SITC of 100A 4P MCCB Isolator control with in suitable sheet steel enclosure for isolating total supply to Bank except UPS, Yard/Board Lights & ATM				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	
b.	<b><u>LOCAL ISOLATION FOR UPS POWER TO BANK / WORK STATIONS</u></b>				
	SITC of 40A 2P MCB Isolator control with in suitable sheet steel enclosure for isolating UPS Power supply to Bank Counters/ Work Stations except ATM / Server				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	
b.	<b><u>LOCAL ISOLATION - OPTIONAL</u></b>				
	SITC of Lockable Push Button control with in suitable sheet steel enclosure for isolating total supply to Bank except UPS and ATM. The Control Circuit shall be wired from the MDB-02 MCCB Shunt Trip Coil so that the MCCB shall be tripped using the Push Button. Wiring/ Cabling shall be measured in separate item.				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	
c.	SITC of 32A 4P MCB Isolator control with in suitable sheet steel enclosure for isolating Power Points/ Equipments/ AC ODU, Etc.				
		Supply:	Nos	2.00	
		Installation:	Nos	2.00	
d.	SITC of 32A 2P MCB Isolator control with in suitable sheet steel enclosure for isolating Power Points/ Equipments/ AC ODU, Etc.				
		Supply:	Nos	6.00	
		Installation:	Nos	6.00	
<b>1.9</b>	<b><u>SUB-MAIN POWER WIRING - COPPER WIRING</u></b>				

a.	Supply, laying, testing and commissioning of submain circuits using 2 run 2.5 Sqmm PVC insulated, FRLS, stranded copper cable along with 1 run 2.5 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductor through 20mm dia ISI Graded rigid PVC conduits, black with all specials including terminations complete as per standards, under consealed conduit system of wiring. Proper color coded wires shall be used for the entire wiring.(15A power points.)				
	Supply:	Mtr	170.00		
	Installation:	Mtr	170.00		
b.	Supply, laying, testing and commissioning of submain circuits using 2 run 4.0 Sqmm PVC insulated, FRLS, stranded copper cable along with 1 run 4.0 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductor through 20mm dia ISI Graded rigid PVC conduits, black with all specials including terminations complete as per standards, under consealed conduit system of wiring. Proper color coded wires shall be used for the entire wiring. (15A power points and A/C points)				
	Supply:	Mtr	200.00		
	Installation:	Mtr	200.00		
c.	Supply, laying, testing and commissioning of submain circuits using 4 run 4.0 Sqmm PVC insulated, FRLS, stranded copper cable along with 1 run 4.0 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductor through 25mm dia ISI Graded rigid PVC conduits, black with all specials including terminations complete as per standards, under consealed conduit system of wiring. Proper color coded wires shall be used for the entire wiring. (32A power points and A/C points)				
	Supply:	Mtr	40.00		
	Installation:	Mtr	40.00		
d.	Supply, laying, testing and commissioning of submain circuits using 5 run 6.0 Sqmm PVC insulated, FRLS, stranded copper cable [1x3 Phases and 2x1 nutral] along with 2 run 4.0 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductors through Flexible GI conduits with conduit glands, specials etc. including terminations complete as per standards. (UPS Power Points to UPS)				
	Supply:	Mtr	8.00		
	Installation:	Mtr	8.00		
e.	Supply, laying, testing and commissioning of submain circuits using 3 run 6.0 Sqmm PVC insulated, FRLS, stranded copper cable [1x1 Phase and 2x1 nutral] along with 1 run 4.0 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductors through Flexible GI conduits with conduit glands, specials etc. including terminations complete as per standards. (UPS DB to UPS & UPS Power Isolator)				
	Supply:	Mtr	6.00		
	Installation:	Mtr	6.00		
f.	Supply, laying, testing and commissioning of submain circuits using 3 run 10.0 Sqmm PVC insulated, FRLS, stranded copper cable [1x1 Phase and 2x1 nutral] along with 1 run 4.0 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductors through Flexible GI conduits with conduit glands, specials etc. including terminations complete as per standards. (UPS DB to UPS)				
	Supply:	Mtr	8.00		
	Installation:	Mtr	8.00		
<b>SUB TOTAL - I</b>					
<b>II</b>	<b>PART- II - LT CABLES AND CABLING</b>				
<b>2.0</b>	<b>L T CABLES</b>				
<b>2.1</b>	<b>CABLE LAYING</b>				

	Supply and laying the following PVC insulated PVC sheathed armoured 1.1KV grade Aluminium /Copper conductor cable conforming to IS:1554 (part-1) in cable trenches or on concrete wall or through pipes as per specifications, including providing of cable route markers in every 50M and at all strategic turning/ diversion points etc. Necessary clamping should be providing while burying cables in prepared trenches etc.as per standards.				
a.	4.0x35 Sq.mm, Meter Board to MDB 1 & MDB-1 to MDB-2 & MCCB Isol. Control				
		Supply:	Mtr.	85.00	
		Installation:	Mtr.	85.00	
b.	4.0x25 Sq.mm, MDB to PDB				
		Supply:	Mtr.	40.00	
		Installation:	Mtr.	40.00	
c.	4.0x16 Sq.mm, MDB to PDB				
		Supply:	Mtr.	10.00	
		Installation:	Mtr.	10.00	
d.	4.0x10 Sq.mm, MDB to LDB				
		Supply:	Mtr.	8.00	
		Installation:	Mtr.	8.00	
e.	3Cx2.5sqmm Copper cable (Branch/ATM Glow Sigh Board)				
		Supply:	Mtr.	70.00	
		Installation:	Mtr.	70.00	
<b>2.2</b>	<b><u>CABLE TERMINATIONS</u></b>				
	Supply and providing end terminations using siemens type compression gland for PVC insulated and PVC sheathed armoured conductor cable 1.1KV grade for the followings sizes including earthing the glands as required as per standards.				
a.	4.0x35 Sq.mm				
		Supply:	Each	6.00	
		Installation:	Each	6.00	
b.	4.0x25 Sq.mm				
		Supply:	Each	4.00	
		Installation:	Each	4.00	
c.	4.0x16 Sq.mm				
		Supply:	Each	2.00	
		Installation:	Each	2.00	
d.	4.0x10 Sq.mm				
		Supply:	Each	2.00	
		Installation:	Each	2.00	
e.	3.0x2.5 Sq.mm Cu				
		Supply:	Each	2.00	
		Installation:	Each	2.00	
<b>SUB TOTAL - II</b>					
<b>III</b>	<b>PART- III - EARTHING</b>				
<b>3.1</b>	<b>COPPER EARTHING CONDUCTORS</b>				
	Supply, Laying/ fixing of earthing conductor of the following sizes/ type, jointing as per IS:3043/87 in trench walls pulling through pipes etc.as required.				
a.	Copper wire No.10 SWG				
		Supply:	Mtr.	220.00	
		Installation:	Mtr.	220.00	

b.	Copper wire No.08 SWG				
		Supply:	Mtr.	40.00	
		Installation:	Mtr.	40.00	
c.	Copper wire No.06 SWG				
		Supply:	Mtr.	30.00	
		Installation:	Mtr.	30.00	
<b>3.2</b>	<b>EARTHING STATIONS- GRID</b>				
a.	Supply of all materials and providing pipe earthing using 40mm dia, 2.5 Mtr Long GI Pipe earth Electrode as per IS 3043 including excavation of earth pits in all class of soil, fixing funnel etc. shall be housed in a chamber of 30cmx30cmsx45cms covering the same using heavy duty C.I / RCC slab man hole cover etc. including filling with charcoal sand and salt complete as required. [Common Earthing]				
		Supply:	Set	2.00	
		Installation:	Set	2.00	
<b>3.3</b>	<b>EARTHING STATIONS - UPS - DRIVEN CHEMICAL EARTHING</b>				
a.	Providing maintenance free earthing (MFE) comprising of 17mm dia, 3.0 mtr long copper bonded stainless / nickel steel alloy rod suitably joined together with threadless / compression couplers made of copper alloy including supply of copper coated steel rod, suitable clamps for connecting body earthing strips and all other accessories required for the total erection of the earthing system. The copper bonded rod shall have copper bonding thickness of 250 microns (minimum). The rod shall be driven in earth with augured hole dia of 75-100mm in ground. The conductivity / earth enhancement compound (Confirms to IEC:62651-7 with latest amendments) filled around the copper rod to a depth of 3.0 Mtrs from ground level. The remaining depth shall be compacted with hard/ soft soil for complete erection of the total system including civil works like excavation & refilling of earth, construction of earth pit chamber with Cover Plate OR RCC cover slab as required and as directed by Bank's EIC/ Consultant.				
		Supply:	Set	1.00	
		Installation:	Set	1.00	
<b>SUB TOTAL - III</b>					
<b>IV</b>	<b>PART- IV - MISCELLANEOUS ITEMS</b>				
<b>4.1</b>	<b>SAFETY EQUIPMENTS</b>				
	Supply and providing the following safety equipments at site as per standards and requirements.				
a.	5 KG Dry Chemical Powder type (DCP) fire extinguishers having ISI mark along with mounting supports.				
		Supply:	Each	0.00	
		Installation:	Each	0.00	
b.	Electrical ISI Grade Rubber Mat suitable for L.V Switchboards. (6' x 3' x 1/4").				
		Supply:	Each	1.00	
		Installation:	Each	1.00	
c.	L.T./H.T Mettalic danger sign boards.				
		Supply:	Each	1.00	
		Installation:	Each	1.00	
<b>4.2</b>	<b>CABLE TRAYS/ SUPPORTS</b>				

a.	Supply and Erection of Vertical/Horizontal type M.S. Cable Trays and cable supports fabricated out of M.S.Angles (ISA) and M.S. flats with sufficient width and Spacing between successive cross members and supported at adequate spacing. The cable trays and supports 'shall be painted with 2coats of Zinc chromate 'primer and 2coats of enamel paint. 25x25x6mm MS angles and 20x6mm MS flats shall be used for trays up to 450mm wide and 40x40x6mm MS angles and 20x6mm MS flats shall be used for trays up to 900mm wide.				
		Supply:	Kg	50.00	
		Installation:	Kg	50.00	
<b>SUB TOTAL - IV</b>					
<b>V</b>	<b>PART- V - R &amp; M WORKS [OPTIONAL]</b>				
<b>5.0</b>	The following repairs and maintenance works are also to be executed at site for the successful completion and trouble free operation of the premises.				
a.	Dismantling of all existing unnecessary wiring, cabling, panels, DBs, power connections, earth connections, terminations etc. and stacking the scrap at a location decided by the bank officials/ Architects/Consultants.	Lot		0.00	
<b>SUB TOTAL - V</b>					
<b>VI</b>	<b>PART- VI- DOCUMENTS &amp; APPROVAL.</b>				
a.	Preparation of necessary documents, forms, drawings, schemes, certificates,etc. and getting scheme approval, Energisation Sanction Orders etc. from the Department of Electrical Inspectorate for the installation. All statutory charges shall be reimbursed on production of proper receipts.	Lot		0.00	
b.	Preparation of necessary documents, forms, drawings, schemes, certificates,etc. and getting power allocation sanction and power connection from Power supply authorities/ Company. All statutory charges shall be remitted by the Clients.	Lot		1.00	
<b>SUB TOTAL - VI</b>					
<b>A</b>	<b>SUMMARY OF COSTS-POWER SUPPLY</b>				
<b>I</b>	<b>PART- I - POWER SUPPLY</b>				
<b>II</b>	<b>PART- II - LT CABLES AND CABLING</b>				
<b>III</b>	<b>PART- III - GENERAL EARTHING</b>				
<b>IV</b>	<b>PART- IV - MISCELLANEOUS ITEMS</b>				
<b>V</b>	<b>PART- V - R &amp; M WORKS</b>				
<b>VI</b>	<b>PART- VI - DOCUMENTS &amp; APPROVAL.</b>				
<b>TOTAL</b>					
					<b>ADD GST 18%</b>

**SCHEDULE OF QUANTITY FOR ELECTRIFICATION OF M/S.UNION BANK OF INDIA,  
RAJAKUMARI BRANCH**

**B-LUMINAIRES/FANS AND CONNECTED WIRING**

Sl. No	Description Of Works/ Materials	Unit	Qty	Rate	Amount
<b>I</b>	<b><u>PART-I-LUMINAIRES AND FANS</u></b>				
	Supply, installation, testing and commissioning of the following luminaires/fans using suitable mountings, 3-core extension wire, 6000K lamps and using GI Chain and Anchoring Hooks at Ceiling etc. complete as required.				
a.	Recessed mounting luminaires with 36W LED,6000K, 60x60mm Size, Suitable for Grid type Ceiling Complete with Lamps, Driver etc. (LM25-361-XXX-65-G1; Wipro make OR Equivalent)				
	Supply:	Nos	15.00		
	Installation:	Nos	15.00		
b.	Recessed Mounting down lights with 12W, 6000K, LED Spot Light Type: LD90-141-XXX-65-XX (Wipro Make OR Equivalent.)				
	Supply:	Nos	10.00		
	Installation:	Nos	10.00		
d.	LED Strip Light, 6000K, 18W per Mtr. With Drives and all supporting materials complete.Type: LD90-231-XXX-65-XX (Wipro Make OR Equivalent.)				
	Supply:	Mtr	50.00		
	Installation:	Mtr	50.00		
e.	4', LED Tubes with Drive, etc. complete, Wipro/Philips				
	Supply:	Mtr	12.00		
	Installation:	Mtr	12.00		
f.	Oscillating type wall fan 400mm (Crompton High Flow). The body and Leaf of the wall fan shall be of Metal.				
	Supply:	Nos	4.00		
	Installation:	Nos	4.00		
g.	200mm Exhaust Fans with Louvers. The body and Leaf of the Exhaust fan shall be of Metal.				
	Supply:	Nos	3.00		
	Installation:	Nos	3.00		
h.	Mirror lamp with 12Watt LED 2feet lamps				
	Supply:	Nos	1.00		
	Installation:	Nos	1.00		
i.	Supply and fixing of15/18w LED Wall Bracket/ Bulk Head fitting (Philips)				
	Supply:	Nos	3.00		
	Installation:	Nos	3.00		
j.	Call bell electronic for Manager's Cabin (G M Make)				
	Supply:	Nos	1.00		
	Installation:	Nos	1.00		

k.	Supply of 1200 mm sweep, 35W, 350 rpm, BEE 5 star rated energy saving BLDC based ceiling fan and suitable for operation on 230V, 50Hz, 1Ø AC supply, complete with 300mm down rod, 2 Nos of canopies, shackle, rubber bush, 3 nos of blades, remote controller for On / Off operation with 5 speeds, minimum air delivery of 215 m <sup>3</sup> / min, completely pre wired upto terminal block, etc., including supply of all materials for installation as required and as directed by EIC. (including supply and fixing of Anchor Fastener on RCC slab and fan hook if necessary), Star Rated but with out Regulator				
	Supply:	Nos	4.00		
	Installation:	Nos	4.00		
<b>SUB TOTAL-I- LUMINAIRES AND FANS</b>					
<b>II PART-II-LIGHTING POINTS &amp; SUBMAIN CIRCUITS</b>					
<b>2.1 LIGHTING POINTS</b>					
	Supply, laying, testing and commissioning of light/fan/5A SSO points using 1.5 Sqmm PVC insulated, FRLS, stranded copper conductor cable for individual lights and group controlled lights along with 1.5 Sqmm PVC insulated FRLS green color stranded copper conductor cable earthing conductor through 20mm dia, ISI Graded Rigid PVC Conduits black with all specials including fixing MS Control boxes, modular switches, 3 plate ceiling roses etc. where ever necessary, under consealed / Surface conduit system of wiring. Proper color coded wires shall be used for the entire wiring. Emergency 3 Nos Lights and ATM/E-Lobby Lights shall be wired from UPS DB.				
a.	One light point controlled by one No. 6A switch and Cove Light Points				
	Supply:	Nos	25.00		
	Installation:	Nos	25.00		
b.	Two lights points controlled by one No. 6A Switch				
	Supply:	Nos	15.00		
	Installation:	Nos	15.00		
c.	Three lights points controlled by one No. 6A Switch				
	Supply:	Nos	1.00		
	Installation:	Nos	1.00		
d.	One 5A SSO point combined in light control board				
	Supply:	Nos	8.00		
	Installation:	Nos	8.00		
e.	One 5A SSO point at independent position for TV/ Wall Fan/ Other Light Equipments point Etc. Including CIRCUIT WIRING Complete				
	Supply:	Nos	10.00		
	Installation:	Nos	10.00		
<b>2.2 SUBMAIN CIRCUITS</b>					
a.	Supply, laying, testing and commissioning of submain circuits using 2 run 2.5 Sqmm PVC insulated, FRLS, stranded copper cable along with 1 run 2.5 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductor through 20mm dia ISI Graded rigid PVC conduits, black with all specials including terminations complete as per standards, under consealed conduit system of wiring. Proper color coded wires shall be used for the entire wiring.				
	Supply:	Mtr	200.00		
	Installation:	Mtr	200.00		

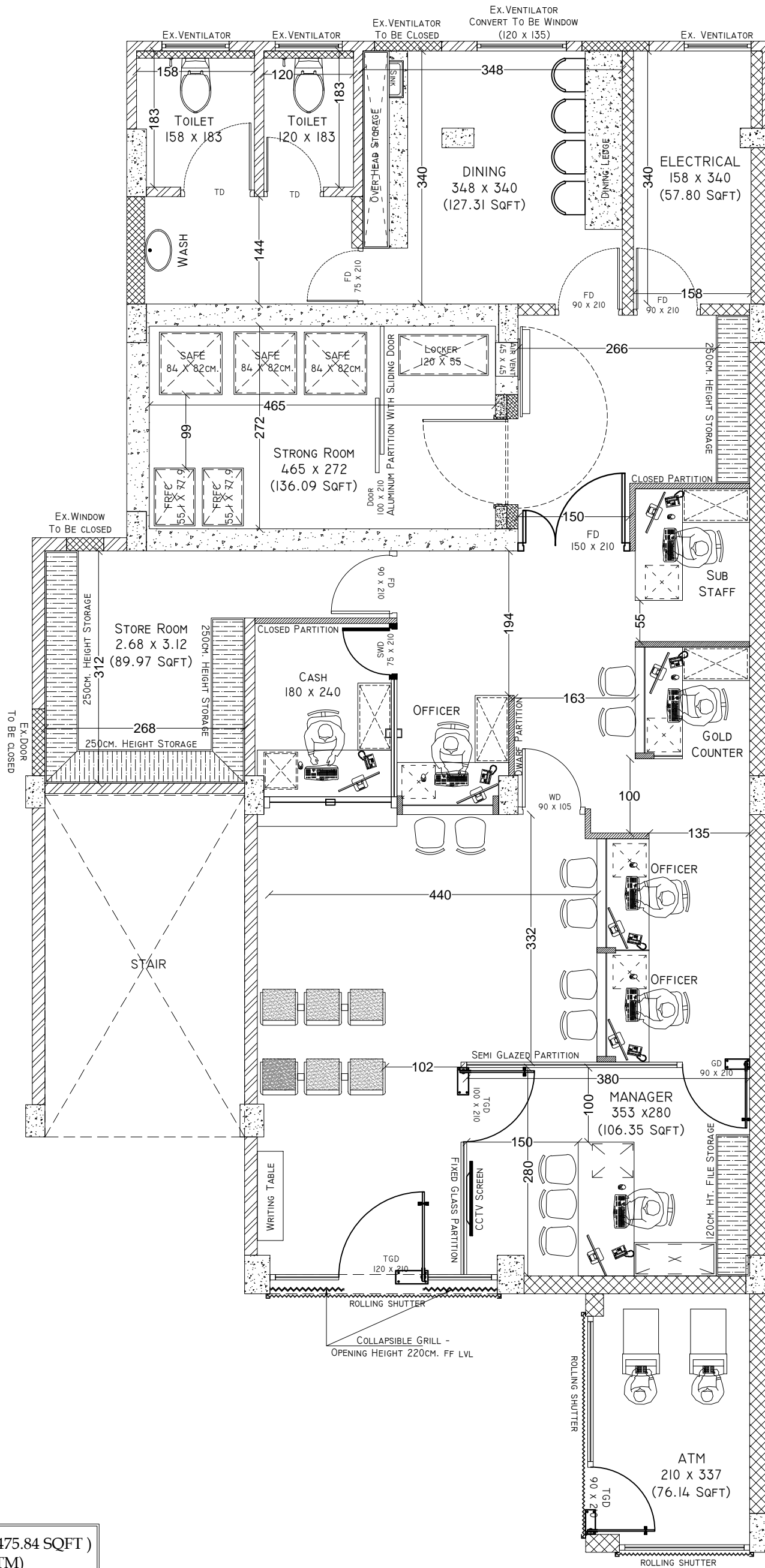
b.	Supply, laying, testing and commissioning of submain circuits using 2 run 1.5 Sqmm PVC insulated, FRLS, stranded copper cable along with 1 run 1.5 Sqmm PVC insulated, FRLS, green color stranded copper cable earthing conductor through 20mm dia ISI Graded rigid PVC conduits, black with all specials including terminations complete as per standards, under consealed conduit system of wiring. Proper color coded wires shall be used for the entire wiring.				
		Supply:	Mtr	100.00	
		Installation:	Mtr	100.00	
<b>SUB TOTAL-II-POWER/LIGHTING POINTS &amp; SUBMAIN WIRING</b>					
<b>B</b>	<b>SUMMARY OF COSTS -INTERNAL ELECTRIFICATION</b>				
<b>I</b>	<b>PART-I-LUMINAIRES AND FANS</b>				
<b>II</b>	<b>PART-II-POWER/LIGHTING POINTS &amp; SUBMAIN WIRING</b>				
<b>TOTAL</b>					
					<b>ADD GST 18%</b>

<b>SCHEDULE OF QUANTITY FOR ELECTRIFICATION OF M/S.UNION BANK OF INDIA RAJAKUMARI BRANCH</b>					
<b>C-DATA, VOICE &amp; MUSIC SYSTEM</b>					
Sl. No	Description Of Works/ Materials	Unit	Qty	Rate	Amount
<b>I</b>	<b>DATA SYSTEM</b>				
<b>1.1</b>	<b><u>LAN SYSTEM</u></b>				
a.	Supply and Laying of Computer (LAN) socket and Voice wiring using one run of four pair CAT- 6 Unshielded Twisted Pair (UTP) Cable through 20mm rigid PVC conduit/ PVC Casing Caping. (Excluding Conduits)				
		Supply:	Mtr	270.00	
		Installation:	Mtr	270.00	
b.	Supply and fixing of LAN Information outlet UTP CAT 6, Shuttered Flush mounted with face plate and GI / PVC mounting box including terminations.				
		Supply:	Nos.	12.00	
		Installation:	Nos.	12.00	
c.	Supply of Cat 6 Patch / Mounting Chords				
	2meter long		Nos	12.00	
	1meter long		Nos	12.00	
<b>1.2</b>	<b><u>NETWORKING AND ACCESSORIES</u></b>				
a)	Supply & fixing of LAN patch panel CAT-6, 24 Port with in the Networking Rack and giving terminations for cables from LAN Info. Outlets.				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	

b)	<b>NETWORK RACK:</b> Supply and Installation of 9U, Wall Mounting Open type, Networking Rack with ladder kit-500mm width, for Data Components, Horizontal Power Strip controlled by 1 no. 16A DP switch each, and with all necessary accessories/ components required for the installation, including Mounting frame etc.				
		Supply:	Nos	1.00	
		Installation:	Nos	1.00	
<b>SUB TOTAL-I- LAN SYSTEM</b>					
<b>II VOICE SYSTEM (TELEPHONE)</b>					
a.	Supply and drawing 2pair 0.5mm telephone cable through Existing 20mm dia. ISI marked medium duty conduits and accessories				
		Supply:	Mtr	0.00	
		Installation:	Mtr	0.00	
b.	Supply and providing telephone outlet points using RJ-11 modular sockets/ Jack within suitable MS control boxes				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
c.	Supply and providing telephone hand set with RJ-11 Port and Chord of suitable length as required of reputed make as per the list of approved materials/ OR approved by the Bank.				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
d.	Supply and providing EPABX System suitable for 2 Incoming Line and 16 Out Going Lines with RJ-11 Ports, Connectivity of reputed make as per the list of approved materials/ OR approved by the Bank.				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
e.	Supply and drawing of <b>2runs of 10 pair</b> 0.5mm telephone wire upto Terminal connectors through 25mm dia. ISI marked medium duty Conduits and accessories.				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
f.	Supply, installation, testing and commissioning of <b>20pair</b> telephone terminal box. The terminal box shall be with sheet steel enclosure and Krone connector (concealed)				
		Supply:	Nos	0.00	
		Installation:	Nos	0.00	
<b>SUB TOTAL-II- VOICE SYSTEM (TELEPHONE)</b>					
<b>III CONDUIT LAYING FOR VOICE/DATA CABLING</b>					
	Supply and laying of the following sizes of Electrical rigid PVC conduits of ISI grade, medium duty for laying recessed through brick wall or in surface through/ wall false ceiling / 25mm PVC casing and capping in surface etc. The work should also include fixing of pull out boxes/junction boxes etc. The PVC conduits for laying of LAN information Cables should be laid with standard clearances as required under the guidance of a certified system Integrator, under consealed conduit system of wiring.				
a.	Supply, installation, testing and commissioning of 20mm DIA rigid PVC conduits of ISI Medium Duty				
		Supply:	Mtr	220.00	
		Installation:	Mtr	220.00	

b.	Supply, installation, testing and commissioning of 25mm DIA rigid PVC conduits of ISI Medium Duty				
		Supply:	Mtr	100.00	
		Installation:	Mtr	100.00	
c.	Supply, installation, testing and commissioning of 25mm PVC Casing and Capping				
		Supply:	Mtr	0.00	
		Installation:	Mtr	0.00	
	<b>SUB TOTAL-III- LOW VOLTAGE SYSTEM CONDUITS</b>				
<b>B</b>	<b>SUMMARY OF COSTS -INTERNAL ELECTRIFICATION</b>				
<b>I</b>	<b>PART-I-LAN SYSTEM</b>				
<b>II</b>	<b>PART-II-VOICE SYSTEM (TELEPHONE)</b>				
<b>III</b>	<b>PART-III-LOW VOLTAGE SYSTEM CONDUITS</b>				
	<b>TOTAL</b>				
					<b>ADD GST 18%</b>

<b>SCHEDULE OF QUANTITY FOR ELECTRIFICATION OF M/S.UNION BANK OF INDIA, RAJAKUMARI BRANCH</b>					
Sl. No	Description Of Works/ Materials	Unit	Qty	Rate	Amount
<b>A</b>	<b><u>POWER SUPPLY</u></b>				
<b>I</b>	<b>PART-1 - POWER SUPPLY</b>	<b>Ls.</b>	<b>1</b>		
<b>II</b>	<b>PART- II - LT CABLES AND CABLING</b>	<b>Ls.</b>	<b>1</b>		
<b>III</b>	<b>PART- III - GENERAL EARTHING</b>	<b>Ls.</b>	<b>1</b>		
<b>IV</b>	<b>PART- IV - MISCELLANEOUS ITEMS</b>	<b>Ls.</b>	<b>1</b>		
<b>V</b>	<b>PART- V - R &amp; M WORKS</b>	<b>Ls.</b>	<b>1</b>		
<b>VI</b>	<b>PART- VI- DOCUMENTS &amp; APPROVAL.</b>	<b>Ls.</b>	<b>1</b>		
<b>B</b>	<b><u>INTERNAL ELECTRIFICATION</u></b>				
<b>I</b>	<b>PART-I-LUMINAIRES AND FANS</b>	<b>Ls.</b>	<b>1</b>		
<b>II</b>	<b>PART-II-POWER/LIGHTING POINTS &amp; SUBMAIN WIRING</b>	<b>Ls.</b>	<b>1</b>		
<b>C</b>	<b><u>DATA, VOICE &amp; MUSIC SYSTEM</u></b>				
<b>I</b>	<b>PART-I-LAN SYSTEM</b>	<b>Ls.</b>	<b>1</b>		
<b>II</b>	<b>PART-II-VOICE SYSTEM (TELEPHONE)</b>	<b>Ls.</b>	<b>1</b>		
<b>III</b>	<b>PART-III-LOW VOLTAGE SYSTEM CONDUITS</b>	<b>Ls.</b>	<b>1</b>		
	<b>GRAND TOTAL A,B&amp;C</b>				
					<b>ADD GST 18%</b>



LEGEND	
TGD	Toughend Glass Door
SWD	Single Window Door
WD	Wicket Door
FD	Flush Door
TD	Toilet Door
FG	Fixed Glass

Slab Btm. - 346  
Beam Btm. - 303

TOTAL AREA = 137.16 M<sup>2</sup> ( 1475.84 SQFT )  
(Including Toilet & ATM)

PROPOSED INTERIOR WORK FOR M/S : UNION BANK OF INDIA @ RAJAKUMARI BRANCH

ILLUSIONS

DRAWING TITLE: INTERIOR LAYOUT

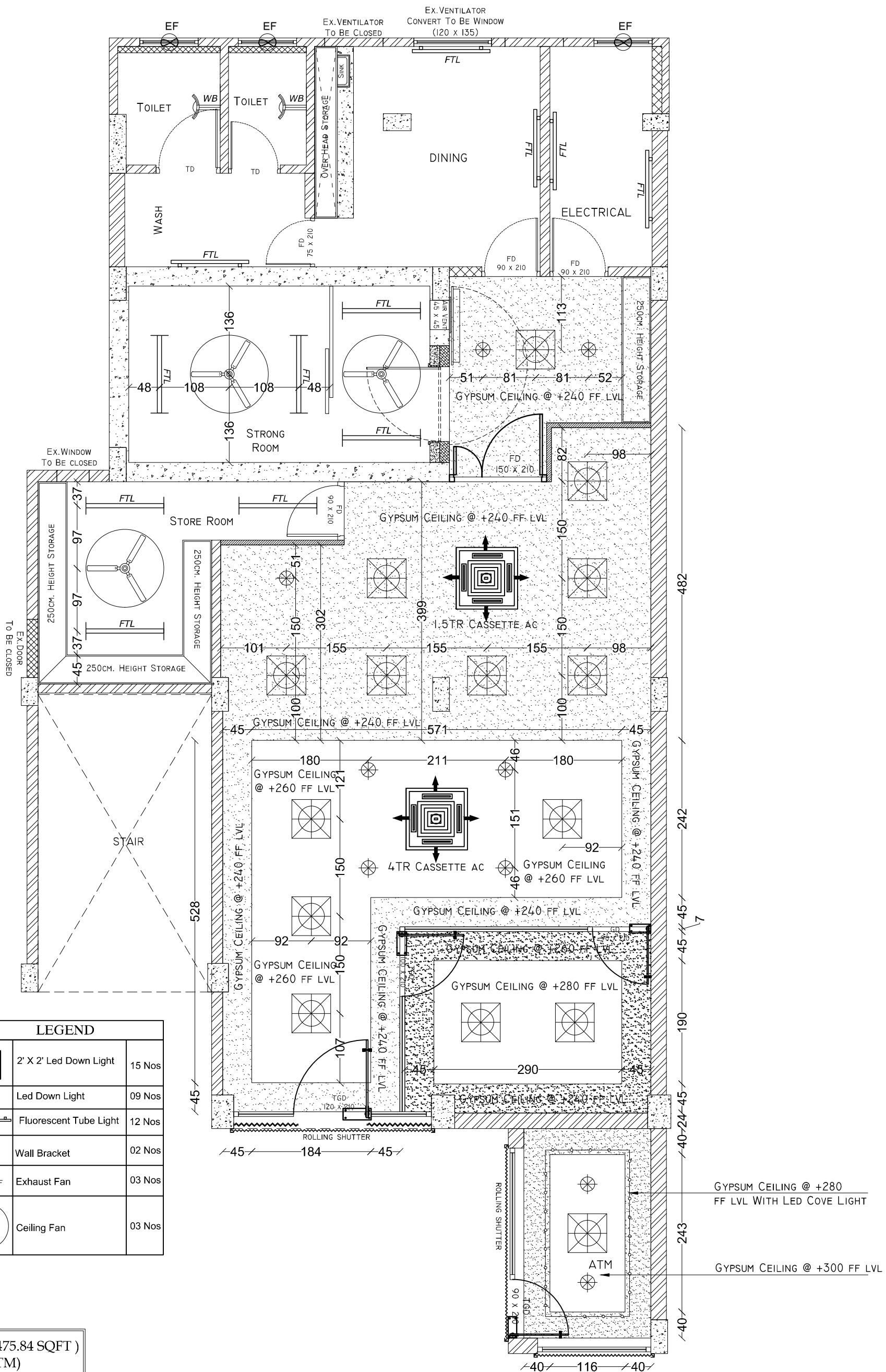
KEY PLAN & NORTH

ARCHITECTURAL ENGINEERS INTERIOR DESIGNERS  
67 GIRINAGAR, KOCHI - 20  
TEL: +91-484-2317701, E-mail :manoj.illusions@yahoo.com

DRAWING NO	SHEET NO	DATE	DRAWN	SCALE	CKD	NO	REVISION DATE
01	SH / P 01	13 - 12 - 2025	Manu	1:100	MKM	01	23 - 12 - 2025



> ALL DIMENSIONS TO BE CHECKED AT SITE.  
> NO DIMENSION TO BE SCALED OFF FROM DRAWINGS ONLY WRITTEN DIMENSION TO BE FOLLOWED.  
> IN THE EVENT OF ANY DISCREPANCIES OF DIFFERENCE STRUCTURAL DRAWINGS OTHER ENGINEERING DRAWING OR SITE CONDITION OR OTHER WISE IMMEDIATE REFERENCE IS TO BE MADE TO THE CONSULTANT FOR CLARIFICATION PRIOR TO EXECUTION OF WORK AT SITE.



LEGEND		
	2' X 2' Led Down Light	15 Nos
	Led Down Light	09 Nos
	Fluorescent Tube Light	12 Nos
	Wall Bracket	02 Nos
	Exhaust Fan	03 Nos
	Ceiling Fan	03 Nos

Slab Btm. - 346  
Beam Btm. - 303

TOTAL AREA = 137.16 M<sup>2</sup> ( 1475.84 SQFT )  
(Including Toilet & ATM)

PROPOSED INTERIOR WORK FOR M/S : UNION BANK OF INDIA @ RAJAKUMARI BRANCH

ILLUSIONS

DRAWING TITLE: CEILING LAYOUT

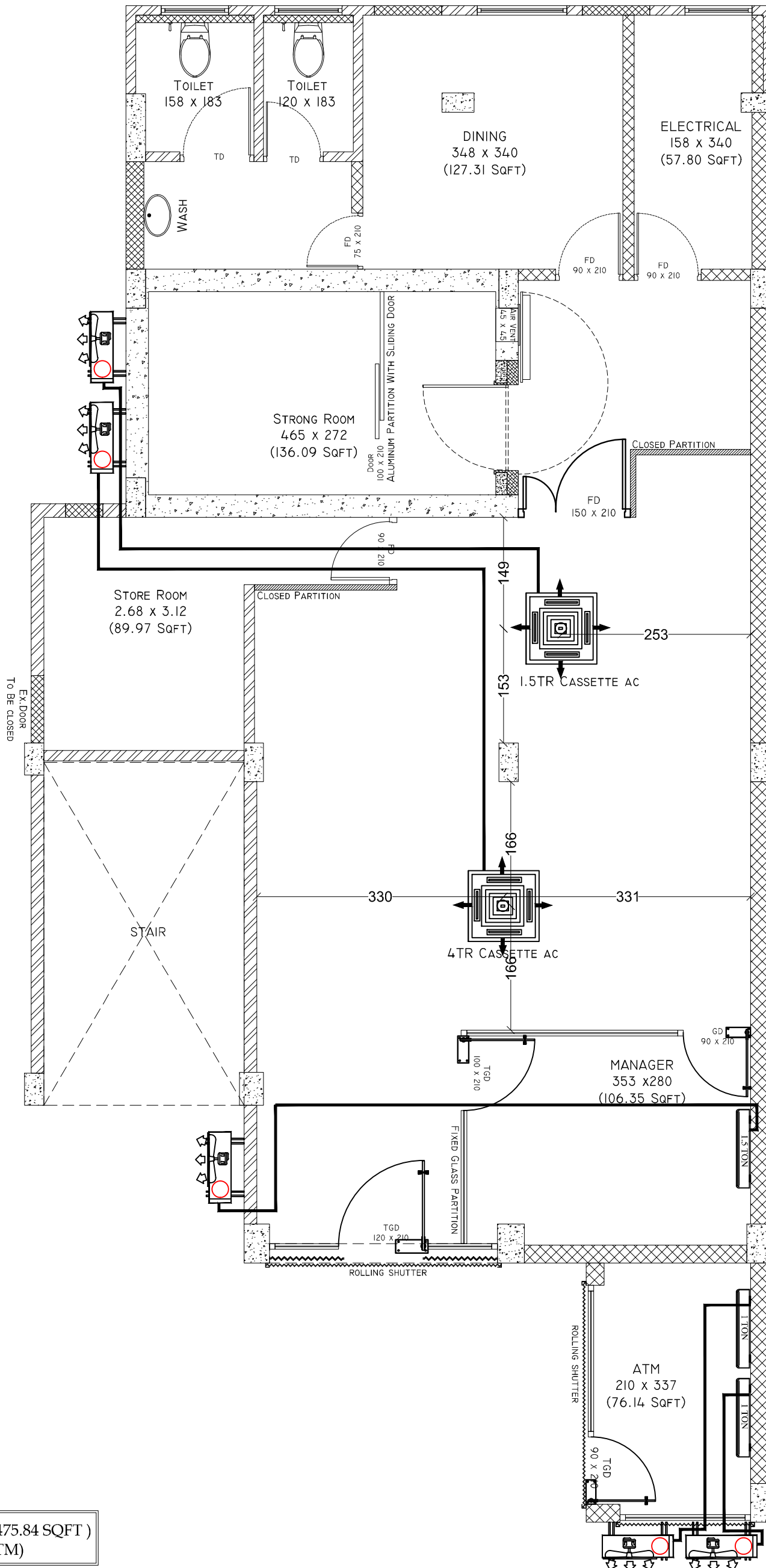
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DRAWING NO	SHEET NO	DATE	DRAWN	SCALE	CKD	NO	REVISION DATE
01	SH / P 01	17 - 01 - 2026	Ashil	1:100	MKM		



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Slab Btm. - 346  
Beam Btm. - 303

TOTAL AREA = 137.16 M<sup>2</sup> ( 1475.84 SQFT )  
(Including Toilet & ATM)

PROPOSED INTERIOR WORK FOR M/S : UNION BANK OF INDIA @ RAJAKUMARI BRANCH

ILLUSIONS

DRAWING TITLE: AC LAYOUT

KEY PLAN & NORTH

ARCHITECTURAL ENGINEERS INTERIOR DESIGNERS  
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TEL: +91-484-2317701, E-mail :manoj.illusions@yahoo.com

DRAWING NO	SHEET NO	DATE	DRAWN	SCALE	CKD	NO	REVISION DATE
01	SH / P 01	17 - 01 - 2026	Ashil	1:100	MKM		



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