

Regional Office,
Union Bank of India, Regional office Shivamogga, First floor, Gopala Main Road, Gopala, Shivamogga -577205

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Date:06.06.2022

TENDER NOTICE FOR ELECTRICAL WORKS OF NEW PREMISES OF BELLARY KC ROAD BRANCH
Bellary Distt. Karnataka state.

Union Bank of India, Regional office, Shivamogga invites sealed tenders from the empaneled contractors in Karnataka State for Electrical Works of the new premises of Bellary KC Road Branch, Bellary Distt.

Issue of Tender Documents from Union Bank of India, Regional Office, Shivamogga	From 06/06/2022 during business hours on All working days till 20/06/2022.
Last Date for Submission of Tenders	20/06/2022 upto 4:00 pm.
Date of Opening of Tenders	20/06/2022 at 5:00 pm
EMD	1 % of the Estimated Cost excluding GST
Tender Cost	Rs 500/-

The sealed tender should be submitted to Union Bank of India, Regional Office, Shivamogga duly super scribing "TENDER FOR ELECTRICAL WORKS OF NEW PREMISES OF BELLARY KC ROAD BRANCH"

Detailed information and tender forms are also available during the aforesaid period at the Bank's Website www.unionbankofindia.com and Govt. website www.eprocure.gov.in.

The Bank reserves the right to reject any or all applications without assigning any reasons whatsoever.

REGIONAL HEAD

TENDER NOTICE

**SUBJECT: ELECTRICAL WORKS AT NEW PREMISES OF BELLARY KC ROAD BRANCH,
BELLARY DISTT., STATE KARNATAKA.**

1. Sealed item rate tenders are invited by Union Bank of India, Regional Office, Shivamogga FROM ELIGIBLE EMPANELED ELECTRICAL CONTRACTORS in Karnataka state for the Electrical works at the Proposed premises of our **BELLARY KC ROAD BRANCH, SHIVAMOGGA DISTT**
2. The set of tender documents, which shall be studied by the tenderer, schedule of quantities and the drawings to be collected from Regional Office during office hours between 06.06.2022 to 20.06.2022. The tenderers are required to complete the "Form of tender price" the schedule of quantities and sign each page including the layout/drawing. The completed and signed set of the tender document is to be enclosed in a sealed cover super scribing the name of the project work and name of the tenderer addressed to The Regional Head, Union Bank of India, Regional Office, 1ST floor, Ashok Arcade, Gopala Main road ,Gopala, Shivamogga-577205
3. The tenderers are required to visit/inspect the site during the said period and expected to price their tender (for all items of each part of the schedule of quantities) so as to strictly confirm to the various terms & conditions stipulated in the tender documents without making any corrections, alterations on their own.
4. Unless specified / agreed otherwise, the rate quoted by the tenderers against each of the schedule of quantities shall be inclusive of the cost of all materials and labor, all taxes like GST, Central Excise duty, sales tax, etc. While submitting the final bills, the contractor should mention their GSTIN, base amount, GST percentage, GST amount and Total amount. The bill should be addressed to Union Bank of India, REGIONAL OFFICE, SHIVAMOGGA along with GST No. of Bank without fail.
5. The price quoted and the liability to produce the quality work will be the main criteria for considering the tender.
6. Eligible Contractor should have 3 years IT returns FY 2018-19 to 2020-2021. The criteria for selection is as under:-
 - a) Shall have average annual turnover of more than Rs 5.00 lakhs during last three years.
 - b) Should not have incurred any loss in more than one year during the last 3 years.
 - c) Should submit solvency certificate equal to Rs 1.00 lakhs. The solvency certificate shall not be more than six month old.
7. The employer is not bound to accept the lowest tender and reserves the right to reject any or all the tenders without assigning any reason thereof. The notification of the award of contract will be made in writing to all the successful tenderers by the architect/employer.
8. The work to be completed within 45 days from the date of issue of order.
9. **Last date of receipt of tenders is on 20/06/2022 up to 4.00 pm.**
10. No tenders will be received after the expiry of the time notified of receiving tenders under any circumstances whatsoever.
11. **The tenders will be opened at Union Bank of India, Regional Office, SHIVAMOGGA on 20/06/2022 at 5.00PM in the presence of authorized representatives of the contracting agency, who opt to be present.**
12. Tender shall remain valid for acceptance for a period of 90 days from the notified last date of tender submission.
13. The tender rate against each item of work/price indicated in the schedule or quantities and rates /price should be indicated both in words and figures. In case of any discrepancy, the rates indicated in words will prevail.
14. The rates quoted against each item of work/ price should be for the complete finished item work includes labor, material, all taxes/GST overhead, duties etc.
15. The Bank reserves the right to modify the drawings at any time during the period, with/without modification in the bill of quantities.
16. The contractor firms registered under MSME UDYAM portal and having valid UDYAM REGD NO. are EXEMPTED from payment of Tender Cost and EMD.

Regional Head, RO Shivamogga.

FORM OF TENDER

To,
 The Regional Head,
 Union Bank of India,
 Regional Office,
 1st floor, Ashoka Arcade
 Gopala Main Road,
 Gopala, Shivamogga-
 577205

ELECTRICAL WORKS OF NEW PREMISES OF BELLARY KC ROAD BRANCH, BELLARY DISTT.

Having examined the tender, documents (contained hereto) and site relating to the work specified and having acquired the requisite information relating thereto as affecting the tender, I/ we hereby offer to execute the work order at the rates mentioned in the 'schedule of quantities' hereto in accordance with all respect of the specifications, design, drawings etc., in accordance with the conditions so far as they may be applicable.

APPENDIX TO GENERAL CONDITIONS OF CONTRACT

S. No	General Conditions of Contract	Value/Remarks
1	Estimated value of work	Rs 3.57 lakhs excluding GST
2	Tender Document Fees	Rs 500/- Cash/DD in favour of Union Bank Of India payable at Shivamogga.
3	Earnest Money Deposit (EMD)	Rs 3600/- i.e 1% of the Estimated Cost excluding GST in the form of DD in favour of Union Bank Of India payable at Shivamogga
4	Initial Security Deposit (ISD)	2% of contract value including EMD (to be paid within 14 days of intimation of acceptance of tender) in the form of DD in favour of Union Bank Of India payable at Shivamogga
5	Period of Completion	45 days
6	Defect Liability period	12 months from the certified date of virtual completion of work issued jointly by Project Architect and Bank Officials.
7	Penalty/ Liquidated Damages	1% of Contract amount per week of delay subjected to a maximum of 10% of contract value
8	Period of Final Measurements	10 days after completion as recorded in the completion certificate.
9	Minimum Value of work to be executed for issue of interim certificates for making payment	Minimum Rs 1,50,000/-
10	Retention money from each bill	3 % of gross value of each interim bill (including EMD & ISD)

11	Total retention money including earnest money and initial security deposit	3 % of the contract value
12	Period for honoring interim and final certificate for making payment	15 working days from date of Architect's certificate of payment for interim bills and six weeks (6) for final certificate.
13	Release of security deposit/retention amount	All the security amount will be refunded to the contractor without any interest 15 (fifteen) days after the end of defects liability period (12 months) on satisfactory completion of all the works and attending to all defects in accordance with the conditions of the Contract, including site clearance to the satisfaction of the Bank

NAME AND SIGNATURE WITH SEAL

SECTION – 1

INSTRUCTIONS TO THE TENDERERS

1.0 Scope of work

ELECTRICAL WORKS OF NEW PREMISES OF BELLARY KC ROAD BRANCH UNDER SHIVAMOGGA REGION

2.0 Tender documents

- ❖ **Technical Bid** : Shall contain prescribed EMD, forwarding letter accepting conditions of contract, List of Sub contractors, Income Tax Returns with Annexures and List of work done in last three years. A list of works like nature with details as to their magnitude and cost, the proportion of work done by the contractor in it and the time schedule for such works.
 - ❖ The tenders not enclosed with specified amount of EMD (in the form of DD or Banker's cheque only) will be rejected. Bank reserves the right to accept or reject any or all the tenders without assigning any reasons thereof.
- 2.1 The work has to be carried out strictly according to the conditions stipulated in the tender consisting the following documents and the most workman like manner.

Instructions to tenderers

General conditions of Contract

Special conditions of Contract

Additional specifications

Drawings

Technical bid

- 2.2.1 The above documents shall be taken as complementary and mutually explanatory of one another but in case of ambiguities or discrepancies, shall take precedence in the order given below:
- a) Technical bid
 - b) Additional Specifications
 - c) Technical Specifications
 - d) Drawings
 - e) Special conditions of contract
 - f) General conditions of contract
 - g) Instructions to Tenderers

Complete set of tender documents including relative drawings can be obtained in person from Regional Office Shivamogga between 10-00 to 17-00 hrs on Monday-Saturday except holidays during the period mentioned in the Notice Inviting Tender or download from the Bank's

Website /Govt. portal.

- 2.3 The tender documents are not transferable.
- 2.4 Union Bank of India Empanelled Furnisher Contractor (under Category 'A' and Category 'B') of Karnataka State are eligible for bidding.
- 2.5 The bidder should submit copy of empanelment letter along with the bid.

3.0 Site Visit.

- 3.1 The tendered must obtain himself on his own responsibility and his own expenses all information and data, which may be required for the purpose of filling this tender document, and enter into a contract for the satisfactory performance of the work. The tendered is requested satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labour, the law and order situation, climatic conditions local authorities requirement, traffic regulations etc.

The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

4.0 Earnest Money.

- 4.1 The tenderers to submit the Earnest Money of Rs.3600/-(Rupees Three Thousand Six Hundred only) being 1% of estimated value of works in the form of Demand Draft/Banker's Cheque in favour of Union Bank of India Payable at Shivamogga drawn on any Nationalised Bank in India.
- 4.2 EMD in any other form other than as specified above will not be accepted. Tender not accompanied by the EMD in Accordance with clause 4.1 above shall be rejected.
- 4.3 No interest will be paid on the EMD.
- 4.4 EMD of unsuccessful tenderers will be refunded within 30 days of award of contract.
- 5.0 EMD of successful tenderer will be retained as a part of security deposit.

6.0 Security Deposit and Retention Money

- 6.1 The successful bidder should deposit 2% of the contract amount as security deposit in the form of Demand Draft including the EMD.
- 6.2 In addition, 1 % of the bill value will be deducted from respective running bills as security retention money.
- 6.2 No interest shall be paid to the amount retained by the Union bank of India as Security Deposit/Retention money.

7.0 Signing of contract Documents

The successful tenderers shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 10 days from the receipt of intimation of acceptance of his tender by the Union bank of India. However, the written acceptance of the tender by the Union bank of India will constitute binding agreement between the Union bank of India and successful tenderer whether such formal agreement is subsequently entered into or not.

7.0 Completion Period

Time is essence of the contract. The work should be completed in all respects in accordance with the

terms of contract within a period of 45 days from the date of handing over site or 10 days from the date of receipt of letter of acceptance whichever is later.

8.0 Validity of tender

Tenders shall remain valid and open for acceptance for a period of three months from the date of opening price bid. If the tenderer withdraws his/her offer during the validity period or makes modifications in his/her original offer which are not acceptable to the Bank without prejudice to any other right or remedy the Bank shall be at liberty to forfeit the EMD.

9.0 Liquidated Damages

The liquidated damages shall be 1% per week subject to a maximum of 10% of contract value.

10.0 Rate and prices:

11.1 In case of item rate tender

- 11.1.1 The tenderers shall quote their rates for individual items both in words and figures in case of discrepancy between the rate quoted in words and figures the unit rate quoted in words will prevail. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed.

The amount of each item shall be calculated and the requisite total is given. In case of discrepancy between the unit rate and the total amount calculated from multiplication of unit rate and the quantity the unit rate quoted will govern and the amount will be corrected.

- 11.1.2 The tenderers need not quote their rates for which no quantities have been given. In case the tenderers quote their rates for such items those rates will be ignored and will not be considered during execution.

- 11.1.3 The tenderers should not change the units as specified in the tender. If any unit is changed the tenders would be evaluated as per the original unit and the contractor would be paid accordingly.

The tenderer should not change or modify or delete the description of the item. If any discrepancy is observed he should immediately bring to the knowledge of the Architect/ Bank.

- 11.1.4 Each page of the BOQ shall be signed by the authorised person and cutting or over writing shall be duly attested by him.

- 11.1.5 Each page shall be totalled and the grand total shall be given.

- 11.1.6 The rate quoted shall be firm and shall include all costs, allowances, taxes, levies.

INSTRUCTIONS TO TENDERERS:

1. All the rates shall be filled up in figures as well as words without fail.
2. The rates and amount against each item of work shall be filled up only in tender papers issued to the

tenderers.

3. The tenders shall be accompanied by the Earnest Money Deposit for the specified amount.
4. The tenders shall be duly signed by the authorized person competent to enter into contract.
5. No paper or sheet shall be detached from the tender document issued to the tenderers.
6. All the drawings shall be returned along with the tenders.
7. The tenders shall be liable for rejection if any of the above said requirements are not complied with.
8. Water and power for construction shall be arranged by the Contractor. In case the Bank agrees to provide water, the electricity charges towards pumping of water will have to be borne by the contractor.
9. The Bank does not bind itself to accept the lowest or any tender and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part without assigning any reason for doing so.
10. A schedule of probable quantities in respect of each work and specifications accompany these special conditions. The drawings/schedule of quantities is liable to alteration by omission, deductions or additions at the discretion of the Architects with the consent of the employer.
11. All items or work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved, directly, related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In case of lump-sum charges in the tender in respect of any item of works, the payment of such items of work will be made for actual work done on the basis of lump-sum charges as will be assessed to be payable by the Employer / Architects.
12. The tenderers must include in their tender prices quoted for all duties royalties, cess and sale tax or any other taxes or local charges if applicable.
13. No extra claim on this account will in any case be entertained.
14. If the employer has supplied any materials or goods to the contractor, the cost of any such materials or goods will be progressively deducted from the amount due to the Contractor in accordance with the quantities consumed in the work.
15. The Employer shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials in which in the opinion of the Employer/Architects are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Employer/Architects shall be borne by the Contractor or may be deducted from any money due to or that may become due to the contractor. No certificate which may be given by the architects shall relieve the Contractor from his liability in respect of unsound work or bad materials.
16. All materials should be got tested by the contractor from approved laboratory and test result submitted to the employers for approval. Only those materials approved by the employers to be used at works. The cost for testing shall be borne by the contractor only.

17. The contractor will be made payments towards steel based on the actual quantities of steel used at site including laps mentioned in the drawings to the exact lengths.
18. The contractor must co-operate and co-ordinate the work with work of all other contractors appointed by the employer so that the work shall proceed with the least possible delay and to the satisfaction of the Architects. The contractor co-ordination with other contractors appointed by the employer is essential to maintain smooth progress of work and any delays, which in the opinion of the Architects/ Employer is due to non-co-ordination and inefficient management of the contractor will not be entertained for any extension of time.
19. No escalation of cost of materials due to any reasons will be entertained.
20. The contractor will observe all statutory and legal requirements as required by the central and state governments as applied to the work. He shall fully indemnify the employer against any loss of property, life etc.,
21. Contractors shall indemnify the employer and architect against any accident on site and immediately outside causing injuries / death to any workers / visitors / third party claims under any of the statutory bodies. All insurance certificate to be provided by contractor
22. PF/Insurance/Taxes of contractor workers are the contractor's full responsibility.
23. The Bank considers concessions in application fee and EMD as applicable for MSME provided MSME certificate is submitted along with the bid document.
24. The bidder should understand that the cost quoted includes all the cost involved in completing the work as per the drawings. The Bank will not reimburse or pay any other cost associated with the work such as transportation, loading, unloading, labor accommodation, delivery, octroi etc.

GENERAL CONDITIONS OF CONTRACT

1.0 Definitions:

"Contract means the documents forming the tender and the acceptance thereof and the formal agreement executed between Union bank of India (client) and the contractor, together with the documents referred therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the architects/ Bank and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

1.1 In the contract the following expressions shall, unless the context otherwise requires, have the meaning hereby respectively assigned to them.

1.1.1 "Bank", "Employer" shall mean the UNION BANK OF INDIA having its Regional office at Shivamogga and includes the Bank's representatives, successors and assigns.

1.1.2 The Contractor shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal personal representative of such individual or the composing the firm or company and the permitted assignees of such individual or firms of company.

The expression 'works' or 'work' shall mean the permanent or temporary work described in the "Scope

of work" and / or to be executed in accordance with the contract and includes materials, apparatus, equipment, temporary supports, fittings and things of all kinds to be provided, the obligations of the contractor hereunder and work to be done by the contractor under the contract.

- 1.1.3 'Engineer' shall mean the representative of the Architect/ consultant of the Bank.
- 1.1.4 'Drawings' shall mean the drawings prepared by the Architects and issued by the Engineer and referred to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time. 'Contract value shall mean the value of the entire work as stipulated in the letter of acceptance of tender subject to such additions thereto or deductions there from as may be made under the provision herein after contained.
- 1.1.5 'Specifications' shall mean the specifications referred to in the tender and any modifications thereof as may time to time be furnished or approved by the architect/ consultant "Month" means calendar month.
- 1.1.6 "Week" means seven consecutive days.
- 1.1.7 "Day" means a calendar day beginning and ending at 00 Hrs and 24 Hrs respectively.

CLAUSES:

1.0 Total Security Deposit is 3% of accepted value of tender which includes

- Earnest Money Deposit (EMD)
- Initial Security Deposit (ISD)
- Retention Money (RM)

a) Earnest Money Deposit:

The tenderer shall furnish EMD of Rs.3600/- (Rupees Three Thousand Six Hundred only) in the form of Demand draft drawn in favour of Union Bank of India and payable at Shivamogga on any Scheduled Bank. No tender shall be considered unless the EMD is so deposited in the required form. No interest shall be paid on this EMD. The EMD of the unsuccessful tenderer shall be refunded soon after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time the period when he is required to keep his tender open acceptance by the Union Bank of India after it is accepted by the Union Bank of India the contractor fails to enter into a formal agreement or fails to pay the initial security deposit as stipulated or fails to commence the commence the work within the stipulated time.

b) Retention Money:

Besides the EMD & ISD as deposited by the contractor in the above said manner the retention money shall be deducted from the running account bill at the rate of 1% of the gross value of work done by the contractor and claimed in each bill. It shall be refunded to the contractors without interest within fifteen days after the end of defects liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance.

2.0 Language:

The language in which the contract documents shall be drawn shall be in English.

3.0 Errors, omissions and discrepancies:

In case of errors, omissions and / or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc., the following order shall apply.

- i) Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.
- ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the former shall be taken as correct.
- iii) Between written description of the item in the specifications and descriptions in bills of quantities of the

same item, the former shall be adopted.

- a) In case of difference between rates written in figures and words, the rate in words shall prevail.
- b) Between the duplicate/ subsequent copies of the tender, the original tender shall be taken as correct.

4.0 Scope of work:

The contractor shall carry out complete and maintain the said work in every respect in strictly accordance with this contract and with the directions of and to the satisfaction of the Union Bank of India through the architect/ consultant. The architect/ consultant at the directions of the Union Bank of India from time to time issue further drawings and / or written instructions, details directions and explanations which are hereafter collectively referred to as Architect's/ consultant's instructions in regard to the variation or modification of the design, quality or quantity of work or the addition or omission or substitution of any work. Any discrepancy in the drawings or between the BOQ and / or drawings and / or specifications. The removal from the site of any material brought thereon by the Contractor and any substitution of any other materials therefore the removal and / or re-execution of any work executed by him. The dismissal from the work of any person employed /engaged there upon.

5.0 i) Letter of Acceptance:

Within the validity period of the tender the Union Bank of India shall issue a letter of acceptance either directly or through the architect by registered post or otherwise depositing at the address of the contractor as given in the tender to enter into a Contract for the execution of the work as per the terms of the tender. The letter of acceptance shall constitute a binding contract between the Union Bank of India and the contractor.

ii) Contract Agreement:

On receipt of intimation of the acceptance of tender from the Union Bank of India's / Architect the successful tenderer shall be bound to implement the contract and within ten days thereof he shall sign an agreement in a non-judicial stamp paper of appropriate value.

6.0 Ownership of drawings:

All drawings, specifications and copies thereof furnished by the Union Bank of India through its architects / consultants are the properties of the Union Bank of India. They are not to be used on other work.

7.0 Detailed drawings and instructions:

The Union Bank of India through its architects/ consultants shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the contract documents, true developments thereof and reasonably inferable there from.

The work shall be executed in conformity therewith and the contractor prepare a detailed programme schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the Union Bank of India through the architect / consultant.

8.0 Copies of agreement:

Two copies of agreement duly signed by both the parties with the drawings shall be handed over to the contractors.

9.0 Liquidated damages:

If the contractor fails to maintain the required progress as contracted or extended date or completion without justification in support of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to the Union Bank of India on account of such breach to pay a liquidated damages at the rate of 1% of the contract value per week which subject to a maximum of 10% of the contract value.

10.0 Materials, Appliances and Employees:

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be best quality. The contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Workman whose work or behaviour is found to be unsatisfactory by the Union Bank of India /architect / consultant he shall be removed from the site immediately.

11.0 Permits, Laws and Regulations:

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expenses. The contractor shall give notices and comply with the regulations, laws, and ordinances rules, applicable to the contract. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the Union Bank of India in writing under intimation of the architect / consultant. If the contractor performs any act, which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify the Union Bank of India any legal actions arising there from.

12.0 Setting out Work:

The contractor shall set out the work 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 and get it approved by the architect / consultant before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that the layout had been approved by the architect / consultant the contractor shall be responsible for the same and shall at his own expenses rectify such error, if so, required to satisfaction of the Bank.

13.0 Protection of works and property:

The contractor shall continuously maintain adequate protection. Of all his work from damage and shall protect the Union Bank of India properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss, except due to causes beyond his control and due to his fault or negligence.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protection of his employees on the works and shall comply with all applicable provisions of Govt. and local bodies safety laws and building codes to prevent accidents, or injuries to persons or property on, about or adjacent to his place of work. The contractor shall take insurance covers as per clause 26.0 at his own cost. The policy may be taken in joint names of the contractor and the Union Bank of India and the original policy may be lodged with the Union Bank of India.

14.0 Inspection of work:

The Union Bank of India /Architect /Consultant or their representatives shall at all reasonable times have free access to the work site and/ or to the workshop, factories or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the Union Bank of India , Architect / consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the Union Bank of India / Architect / Consultant except the representative of Public authorities shall be allowed on the work at any time. The proposed work either during its construction stage or its completion can also be inspected by the Chief Technical Examiner's organization a wing of Central Vigilance commission.

15.0 Assignment and subletting

The whole of work included in the contract shall be executed by the contractor and he shall not directly entrust and engage or indirectly transfer, assign or underlet the contract or any part or share thereof or interest therein without the written consent of the Union Bank of India through the architect and no undertaking shall relieve the contractor from the responsibility of the contractor from active superintendence of the work during its progress.

16.0 Quality of materials, workmanship & Test

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect / consultant instructions and shall be subject from time to time to such tests as the architect / consultant may direct at the place of manufacture or fabrication or on the site or an approved testing laboratory. The contractor shall provide such assistance, instruments, machinery, labour, and materials as are normally required for examining measuring sampling and testing any material or part of work before incorporation in the work for testing as may be selected and required by the architect / consultant.

17.0 Obtaining information related to execution of work

No claim by the contractor for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the work nor any misunderstanding or the obtaining incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfilment of contract.

18.0 Contractor's superintendence

The contractor shall give necessary personal superintendence during the execution of the works and as long, thereafter, as the Architect / consultant may consider necessary until the expiry of the defects liability period, stated hereto.

19.0 Quantities

- a) The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual item to any extent subject to maximum variation of the contract value by 25%. All the amount paid under clause 21 hereof as well as amounts of primer cost and provisional sums, if any, shall be excluded.
- b) **Variation exceeding 25%:** The items of work executed in relation to variation exceeding 25% shall be paid on the basis of provisions of clause 22 (e) hereof.

The Architect / Consultant may from time to time intimate to the contractor that he required the work to be measured and the contractor shall forthwith attend or send or qualified representative to assist the Architect in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them. Such measurements shall be taken in accordance with the Mode of measurements detailed in the specifications. The representative of the Architect / Consultant shall take joint measurements with the contractor's representative and the measurements shall be entered in the measurement book. The contractor or his authorized representative shall sign all the pages of the measurement book in which the measurements have been recorded in token of his acceptance. All the corrections shall be duly attested by both representatives. No over writings shall be made in the measurement book. Should the contractor not attend or neglect or omit to depute his representative to take measurements then the measurements recorded by the representative of the Architect / Consultant shall be final. All authorized extra work omissions and all variations made shall be included in such measurement.

21.0 Variations

No alteration, omission or variation ordered in writing by the Architect / consultant shall vitiate the contract. In case the Union Bank of India / Architect / Consultant thinks proper at any time during the progress of works to make any alteration in, or additions to or omissions from the works or any alteration in the kind or quality of the materials to be used therein, the Architect / Consultant shall give notice thereof in writing to the contractor or shall confirm in within seven days of giving such oral instructions the contractor shall alter to, add to, or omit from as the case may be in accordance with such notice, but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the contract, stipulations, specifications or contract drawings without previous consent in writing of the Architect / Consultant and the value of such extras, alterations, additions or omissions shall in all cases be determined by the

Architect / Consultant/Bank and the same shall be added to or deducted from the contract value, as the case may be.

22.0 Valuation of Variations

No claim for an extra shall be allowed unless it shall have been executed under the authority of the Architect / Consultant with the concurrence of the Union Bank of India as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

- a) (i) The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work priced herein.
(ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.
- b) The net prices of the original tender shall determine the value of the items omitted, provided if omissions do not vary the conditions under which any remaining items of works are carried out, otherwise the prices for the same shall be valued under sub- clause (c) hereunder.
- c) Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items or works are carried out, then the contractor shall within 7 days of the receipt of the letter of acceptance inform the Architect / consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimed and the Architect / consultant shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.
- c) Where extra work cannot be properly measured or valued the contractor shall be allowed day work prices at the net rates stated in the tender of the BOQ or, if not, so stated then in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Architect / Consultant) the workman's name and materials employed be delivered for verifications to the Architect / consultant at or before the end of the week following that in which the work has been executed.
- d) It is further clarified that for all such authorized extra items where rates cannot be derived from the tender, the Contractor shall submit rates duly supported by rate analysis worked on the "market rate basis" for material, labour, hire / running charges of equipment and wastages etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall not be eligible for escalation.

23.0 Final measurement

The measurement and valuation in respect of the contract shall be completed within three months of the virtual completion of the work.

24.0 Virtual completion certificate (VCC)

On successful completion of entire works covered by the contract to the full satisfaction of the Union Bank of India, the contractor shall ensure that the following works have been completed to the satisfaction of the Union Bank of India.

- a) Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour, equipment and machinery.
- b) Demolish, dismantle and remove the contractor's site office, temporary works, structures including labour sheds/ camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the Union Bank of India and not incorporated in the permanent works.
- c) Remove all rubbish, debris etc. from the site and the land allotted to the contractor by the Union Bank of

India and shall clear, level and dress, compact the site as required by the Bank.

- d) Shall put the Union Bank of India in undisputed custody and possession of the site and all land allotted by the Union Bank of India.
- e) Shall hand over the work in a peaceful manner to the Union Bank of India.
- f) All defects / imperfections have been attended and rectified as pointed out by the Union Bank of India to the full satisfaction of Union Bank of India.

Upon the satisfactory fulfilment by the contractor as stated above, the contractor shall be entitled to apply to the Architect / consultant is satisfied of the completion of the work. Relative to which the completion certificate has been sought, the Architect / consultant shall within fourteen (14) days of the receipt of the application for virtual completion certificate, issue a VCC in respect of the work for which the VCC has been applied.

This issuance of a VCC shall be without prejudice to the Union Bank of India rights and contractor's liabilities under the contract including the contractor's liability for defects liability period nor shall the issuance of VCC in respect of the works or work at any site be construed as a waiver of any right or claim of the Union Bank of India against the contractor in respect of works or work at the site and in respect of which the VCC has been issued.

25.0 Work by other agencies

The Union Bank of India / Architect / consultant reserves the rights to use premises and any portion of the site for execution of any work not included in the scope of this contract which if may desire to have carried out by other persons simultaneously and the contractor shall not only allow but also extend reasonable facilities for the execution of such work. The contractor however shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Union Bank of India. Such work shall be carried out in such manner as not to impede the progress of the works included in the contract.

26.1 Damage to persons and property

The contractor shall indemnify the Union Bank of India against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

- a) The permanent use or occupation of land by or any part thereof.
- b) The right of Union Bank of India to execute the works or any part thereof on, over, under, in or through any lands.
- c) Injuries or damages to properties, which are unavoidable result of the execution or maintenance of the works in accordance with the contract.
- d) Injuries or damage to persons or property resulting from any act or neglect of the Union Bank of India or their agents, employees or other contractors not being employed by the contractor or for or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the contractor, his servants or agents such part of the compensation as may be just and equitable having regard to the extent of the responsibility of Union Bank of India, their employees, or agents or other employees, or agents or other contractors for the damage or injury.

26.2 Contractor to indemnify Union Bank of India

The contractor shall indemnify the Union Bank of India against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision sub-clause 26.1 of this clause.

27 Contractor's superintendence

The contractor shall fully indemnify and keep indemnified the Union Bank of India against any action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against Union Bank of India in respect of such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the Union Bank of India if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Architect / consultant in this behalf.

28 Accident or Injury to workman:

The Union Bank of India shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or any sub- contractor, save and except an accident or injury resulting from any act or default of the Union Bank of India or their agents, or employees. The contractor shall indemnify and keep indemnified Union Bank of India against all such damages and compensation, save and except as aforesaid, and against all claims, proceedings, costs charges and expenses whatsoever in respect thereof or in relation thereto.

29.0 Commencement of Works:

The date of commencement of the work will be reckoned as the date of handing over site or ten(10) days from the date of issue of letter of acceptance of the tender by the Union Bank of India whichever is later.

30.0 Time for completion

Time is essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of 45 (Forty five) days from the date of commencement. The contractor shall complete certain portions of work before completion of the entire work. However the completion date shall be reckoned as the date by which the whole work is completed as per the terms of the contract.

31.0 Extension of time

If, in the opinion of the Architect / consultant, the work be delayed for reasons beyond the control of the contractor, the Architect / consultant may submit a recommendation to the Union Bank of India to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the Union Bank of India through the Architect / Consultant in writing at least 10 Days before the expiry of the scheduled time and while applying for extension of time he shall furnish the reasons in detail and his justification if any, for the delays. The architect / consultant shall submit their recommendations to the Union Bank of India in the prescribed format for granting extension of time. While granting extension of time the contractor shall be informed the period extended time, which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the Union Bank of India the provision of liquidated damages as stated under clause 9.0 shall become applicable. Further the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

32.0 Rate of progress

Whole of the materials, plant and labour to be provided by the contractor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner to the satisfaction of the Architect / consultant should the rate of progress of the work or any part thereof be at any time be in the opinion of the Architect / consultant too slow to ensure the completion of the whole of the work by the prescribed time or extended time for completion the Architect / consultant shall thereupon take such steps as considered necessary by the Architect / consultant to expedite progress so as to complete the works by the prescribed time or extended time. Such communications from the Architect / consultant neither shall relieve the contractor from fulfilling obligations under the contract nor he will be entitled to raise any claims arising out of such directions.

33.0 Work during nights and holidays

Subject to any provision to the contrary contained in the contract no permanent work shall save as herein provided be carried on during the night or on holidays without the permission in writing of the Architect / consultant, save when the work is unavoidable or absolutely necessary for the saving of life of property or for the safety of the work in which case the contractor shall immediately advise the Architect / consultant. However the provisions of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the works being technically required / continued with the prior approval of the Architect / consultant at no extra cost to the Union Bank of India.

All work at night after obtaining approval from competent authorities shall be carried out without unreasonable noise and disturbance.

34.0 No compensation or restrictions of work

If at any time after acceptance of the tender Union Bank of India shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not required the whole or any part of the work to be carried out. The Architect / consultant shall give notice in writing to that effect to the contractor and the contractor shall act accordingly. In the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work fully but which he did not derive in consequence of the foreclosure of the whole or part of the work.

Provided that the contractor shall be paid the charges on the cartage only of materials actually and bonafide brought to the work by the contractor and rendered surplus as a result of the abandonment, curtailment of the work or any portion thereof and then taken back by the contractor, provided however that the Architect / Consultant shall have in such cases the option of taking over all or any such materials at their purchase price or a local current rate whichever is less.

"In case of such stores having been issued from Union Bank of India stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect / consultant shall be final.

35.0 Suspension of work

- i) The contractor shall, on receipt of the order in writing of the Architect / consultant (whose decision shall be final and binding on the contractor) suspend the progress of works or any part thereof for such time

and in such manner as Architect / consultant may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons.

- a) On account any default on the part of the contractor, or
- b) For proper execution of the works or part thereof for reasons other than the default of the contractor, or
- c) For safety of the works or part thereof.
The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Architect / consultant.
- d) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:
The contractor shall be entitled to an extension of time equal to the period of every such suspension.
No compensation whatsoever shall be paid on this account.

36.0 Action when the whole security deposit is forfeited

In any case in which under any clause or clauses of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit the Architect / consultant shall have the power to adopt any of the following course as they may deem best suited to the interest of the Union Bank of India.

- a) To rescind the contract (of which rescission notice in writing to the contractor by the Architect / consultant shall be conclusive evidence) and in which case the security deposit of the contractor shall be forfeited and be absolutely at the disposal of Union Bank of India.
- b) To employ labour paid by the Union Bank of India and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and materials (the cost of such labour and materials as worked out by the Architect / consultant shall be final and conclusive against the contractor) and crediting him with the value of the work done, in all respects in the same manner and at the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract the certificate of architect / consultant as to the value of work done shall be final and conclusive against the contractor.
- c) To measure up the work of the contractor, and to take such part thereof as shall be unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificates in writing of the Architects / consultant shall be final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by Union Bank of India under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of any of above courses being adopted by the Union Bank of India the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advance on account of, or with a view to the execution of the work or the performance of the contract and in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work thereto for actually performed under this contract, unless and until the Architects / consultant will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

37.0 Bank's right to terminate the contract:

If the contractor being an individual or a firm commit any 'Act of insolvency' or shall be adjusted an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Govt. and of the official Assignee of the liquidator in such acts of insolvency or winding up shall be unable within seven days after notice to him to do so, to show to the reasonable satisfaction of the Architects / consultant that he is able to carry out and fulfil the contract,

and to give security therefore if so required by the Architects / consultant.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued 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 Union Bank of India through the Architects / consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under.

- a) Has abandoned the contract; or
- b) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 7 days after receiving from the Union Bank of India through the Architect / consultant written notice to proceed, or
- c) Has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the Union Bank of India through the Architect / consultant that the said materials were condemned and rejected by the Architect / consultant under these conditions; or has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed and performed by the contractor for seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the Union Bank of India or Architect's / consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the Union Bank of India and or the Architect / consultant, may not withstanding any previous waiver, after giving seven days notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the Union Bank of India or the Architect / consultant or the obligation and liabilities of the contractor the whole of which shall continue in force as fully as if the contract had not been so determined and as if the works subsequently had been executed by or on behalf of the contractor. And., further the Union Bank of India through the Architect / consultant their agents or employees may enter upon and take possession of the work and all plants, tools, scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads use the same by means of their own employees or workmen in carrying on and completing the work or by engaging any other contractors or persons to complete the work and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other persons employed for completing and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the Union Bank of India or the architect / consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 7 days after receipt thereof by him the Union Bank of India sell the same by public auction after due publication, and shall adjust the amount realized by such auction. The contractor shall have no right to question any of the act of Bank incidental to the sale of the materials etc.

38.0 Certificate of payment:

The contractor shall be entitled for payment under the certificates to be issued by the Bank's Engineer/ Architect / consultant to the contractor within 10 working days from the date of certificate from Union Bank of India from time to time. The Union Bank of India shall recover the statutory recoveries other dues including the retention amount from the certificate of payment.

Provided always that the issue of any certificate by the Architect / consultant during the progress of works or completion shall not have effect as certificate of satisfaction or relieve the contractor from his liability under clause.

The Architect / consultant shall have power to withhold the certificate if the work or any part thereof is not carried out to their satisfaction.

The Architect / consultant may by any certificate make any corrections required in previous certificate.

The Union Bank of India shall modify the certificate of payment as issued by the architect / consultant from time to time while making the payment.

The contractor shall submit interim bills only after taking actual measurements and properly recorded in the M books.

The contractor shall not submit interim bills when the approximate value of work done by him is not less than Rs, 1, 50,000/- (Rupees One lakh fifty thousand only) and the minimum interval between two such bills shall be 10 days.

The final bill may be submitted by contractor within a period of one month from the date of virtual completion and Architect / consultant shall issue the certificate of payment within a period of two months. The Union Bank of India shall pay the amount within a period of three months from the date of issue of certificate provided there is no dispute in respect of rates and quantities.

The contractor shall submit the interim bills in the prescribed format with all details.

Method of measurement

- a. Unless otherwise mentioned in the schedule of quantities or in mode of measurement, the measurement will be on the net quantities or work produced in accordance with up to date. Rules laid down by the Bureau of Indian Standards. In the event any dispute / disagreement the decision of the Architect / consultant shall be final and binding on the contractor.
- b. Contractor should produce the measurement sheets of the quantities arrived from the actual site duly verified by union bank representative or Architect/ Consultant of the bank.

39.0 Maintenance of registers

The contractor shall maintain the following registers as per the enclosed proforma at site of work and should produce the same for inspection of Union Bank of India / architect / consultant whenever desired by them. The contractor shall also maintain the records / registers as required by the local authorities / Govt. from time to time.

Register for hindrance to work
Register for running account bill
Register for labour

40.0 Force majeure

- 40.1 Neither contractor nor Union Bank of India shall be considered in default in performance of their obligations if such performance is prevented or delayed by events such as but not to war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of god or for any other cause beyond the reasonable control of the party affected or prevented or delayed. However a notice is required to be given within 30 days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.
- 40.2 As soon as the cause of force majeure has been removed the party whose ability to perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.
- 40.3 From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the cause itself and inability resulting

there from having been removed, the agreed time of completion of the respective obligations under this agreement shall stand extended by a period equal to the period of delay occasioned by such events.

- 40.4 Should one or both parties be prevented from fulfilling the contractual obligations by a state of force majeure lasting to a period of 6 months or more the two parties shall each other to decide regarding the future execution of this agreement.

41.0 Local laws, Acts, Regulations:

The contractor shall strictly adhere to all prevailing labour laws inclusive of contract labour (regulation and abolition act of 1970) and other safety regulations. The contractor shall comply with the provision of all labour legislation including the latest requirements of all the Acts, laws, any other regulations that are applicable to the execution of the project.

- i) Minimum wages Act 1948 (Amended)
- ii) Payment of wages Act 1936 (Amended)
- iii) Workmen's compensation Act 1923 (Amended)
- iv) Contract labour regulation and abolition act 1970 and central rules 1971 (Amended)
- v) Apprentice act 1961 (Amended)
- vi) Industrial employment (standing order) Act 1946 (Amended)
- vii) Personal injuries (Compensation insurance) act 1963 and any other modifications
- viii) Employees provident fund and miscellaneous provisions Act 1952 and amendment thereof
- ix) Shop and establishment act
- x) Any other act or enactment relating thereto and rules framed there under from time to time.

42.0 Accidents

The contractor shall immediately on occurrence of any accident at or about the site or in connection with the execution of the work report such accident to the architect / consultant. The contractor shall also such report immediately to the competent authority whenever such report is required to be lodged by the law and take appropriate actions thereof. The Bank shall not be responsible for any compensation towards any loss due to such accident.

Make of Materials for Electrical Works

PVC conduits : A.K.G/ B.E.C/ Diplast
PVC Copper Wire. : Finolex/ Havells/ Anchor (FRLS grade)
5/6 Amp. Switches / Sockets. : Anchor Roma / Legrand (Mosaic) - Modular.
5/15 Amp. Switches / Sockets. : Anchor Roma / Legrand (Mosaic) - Modular.
Ceiling Rose / Battern Holder. : Anchor Roma / Legrand (Mosaic) - Modular.
Incandescent lamps & filament lamps : Bajaj/ Indo Asian
Rewritable switches : Standard/Crompton/Havells/ Indo Asian
Change over switches : Kenber / Havells/ Indo Asian
Switch fuse unit fuse : English Electric/Siemens / Havells/L&T/ Indo Asian
Switch units HRC fuses MCB English Electric/ L&T/
M.C.B. D.B. MDS (Legrand) / Schneider / Siemens
M.C.B. MDS (Legrand) / Schneider
MCCB.Schneider / Siemens.
Elcb Neptune/ English Electric/ Indo Asian
Aluminum conductor cables Ecko/ Sky Tone/ Havells
G I pipes Tata/ Zenith/Jindal
Kit kats Kay / Anchor/Havells
.Ammeter / voltmeter Automatic Electric/Havells/ L&T
Selector switch L&T/ Kay Cee
CT'S Automatic Electric / Kappa/ L&T
Indicators Concord / Kay Cee / Mathura/ Siemens
HRC fuse/ fuse base/ fuse carrier English Electric/ Standard / Indo Asian
Switch Board Box Plate. Anchor Roma / Legrand (Mosaic) - Modular.
Fan Box Mahajan (MS)
Switchboard Box. M.S. Box.(Legrand-Mosaic) / Anchor Roma.
Holder Plate with Brass Screw. Acrylic Type (Off white Colour)
H.T.Switchgears. ABB / Schneider / Siemens.
Unitised Substation ABB / Schneider.
D.G.Set. Kirloskar.
H.T.Kiosk. Hyphen.
H.T.Cable. Prime Cab / Polycab / Torrent.
L.T.Cable. Polycab / Vishal / Finolex / Prime Cab.9
Indicating Lamps DSS
Lugs & Glands 1) Lugs - Dowells / Lotus.
Meters HPL/ Secure /L & T
Power Contactor Schneider/ TC./Siemens.
Fire Extinguisher Firex.
Rubber Mat Bhor / Atlas.
Capacitors Shreem /Prabhodhan
APFC Relay Beluk / Syncon.
Protection Relny Alstom.
Outdoor & Indoor Termination Reychem.

List of Materials for Electrical Installation

Sl no	Names of materials	Approved Makes
1	FRLS copper wire	Anchor, Havells, Finolex
2	Modular switches and sockets	Anchor Roma, Havells, MK
3	MCBs and DBs	Anchor, Havells, Indo Asian
4	UG cables (1.1 and 11 Kv)	Anchor, Havells, Finolex, Standard
5	Tel cable	Anchor, Havells, Finolex, Standard
6	Switch disconnecting fuse	Anchor, Havells, Standard
7	PVC conduits (ISI)	Vasavi, Sudhakar, Bajaj Plast
8	MS conduits (ISI)	BEC, Vimco
9	Krone block housing	Adc Krone, Triway, D-link
11	Timer	Anchor, Panasonic, Merlin Gerin, Siemens, L&T
12	Contactors	Siemens, L&T, MG
13	Speaker	Bosch, Philips
14	Music system cable	Finolex, Havells, Standard
15	APFC relay	Siemens, Havells
16	APFC panel	Wave form, Baron, Neptune
17	Change over switch	HPL , Standard
18	MCCB	Anchor, Havells, Siemens, L&T ,MG
19	Light fittings	Anchor, Thorn, Philips
20	Exhaust fan	Havells, Bajaj, Crompton, Usha

ESTIMATE FOR ELECTRICAL WORKS & ELECTRICAL FIXTURES FOR UNION BANK OF INDIA KC ROAD BRANCH,BALLARI.

SI No	Description	Unit	Qty	Rate	Amount
1	Supply & wiring of light point,6 Amp Light point,power point,ceiling fan point, exhaust fan point using 1.5 sqmm PVC insulated multistrand copper conductor of 1100 V grade FR wires for the phase neutral & earth drawn through 19 mm Dia medium gauge thick flame retardent PVC conduit with necessary accessories likes bends, junction boxes, collers,ceiling rose on the surface with surface clamps at regular intervals. The point are controlled by 6 Amp SP switch are mounted on the metal boxes covered with front plate including switch socket regulator are modular type.The rate exclusive of 2x2.5 sqmm +1x1.5 sqmm PVC insulated multistrand copper conductor of 1100 v grade.as a mains from DB to light switch board. The no of point per circuit should not exceed 10 points subjected to max 800 watt. The separate PVC conduit pipe should be laid for circuit.				
1.1	Single light point controlled by 6 Amp SP Modular switch	Nos	35		
1.2	Secodary light point controlled by 6 Amp SP Modula switch	Nos	8		
1.3	Switch and socket (Dependent)				
	Supply installation and wiring as above with 1 X 6 Amp socket outlet controlled by one 6 Amp SP Modular switch (dependent)	Nos	8		
1.4	Switch and socket (Independent)				
	Supply installation and wiring as above with 1 X 6 Amp socket outlet controlled by one 6 Amp SP Modular switch (Independent) for wall mounted Fans.Display boards etc.	Nos	8		
1.5	Ceiling Fan point controlled by 6 Amp SP Modular switch without electronic step regulator	Nos	12		
1.6	Exhaust Fan point	Nos	5		
1.7	Calling bell point controlled by 6 Amp SP Modular switch with indicator (inclusive of calling bell)	Nos	1		
1.8	Supply and installation of UPS lighting point controlled by 6 A modular switch.	Nos	12		
2	Electrical wiring:				
	Supply and wiring for mains, sub main for 6A power point , 16 A power point, UPS power point, AC point using PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm / 25 mm dia medium gauge thick flame retardent PVC conduit with necessary accessories likes bends, junction,tee junction box,or 25 mm ISI marked cassing capping etc complete with flush /surface of the wall as required.				
2.1	Mains for Lighting circuit				

	2 x 2.5 Sqmm + 1 x 1.5 Sqmm PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm dia medium gauge thick flame retardent PVC conduit (grey colour) with necessary accessories as required ..	Mtrs	200		
2.2	Mains for UPS power circuit				
	2 x 2.5 Sqmm + 1 x 1.5 Sqmm PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm dia medium gauge thick flame retardent PVC conduit (grey colour) with necessary accessories as required .For UPS power	Mtrs	220		
2.3	Mains for AC, Sign board, Raw power Lighting DB, UPS output DB				
	2 x 4 Sqmm + 1 x 2.5 Sqmm PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm dia medium gauge thick flame retardent PVC conduit(grey colour) with necessary accessories as required.	Mtrs	130		
2.4	Mains for UPS in Input & output ,				
	2 x 6 Sqmm + 1 x 4 Sqmm PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm / 25 mm dia medium gauge thick flame retardent PVC conduit with necessary accessories as required.	Mtrs	30		
3	Power sockets, 6 Amp, 16 Amp, 20 Amp AC sockets.				
	Supply ,installation, testing and commissioning of following power sockets, outlet housed in original GI box / PVC box and covered with switch plate complete including the inter connection the box shall be flush/surface mounted on wall as required.				
3.1	1 x 6 Amp socket (6 A 2/3 pin combine 2 Module) outlet controlled by 6 Amp SP Modular switch raw power work station,	Nos	14		
3.2	3 x 6 Amp socket (6 A 2/3 pin combine 2 Module) outlet controlled by 16 Amp SP Modular switch with indicator for UPS power work station	Nos	10		
3.3	1x 16 Amp socket (6/16 A 3 pin combine 2 Module) outlet controlled by 16 Amp SP Modular switch with indicator directly connected to VTPN	Nos	5		
3.4	20 Amp 3 pin metal clad socket with top controlled by 16/20 Amp SP MCB in factory made MS enclosure for AC socket.	Nos	7		
4	Distribution Board				

	SITC of factory ready made distribution board double door type SPN / ETPN / VTPN DB made out of 16 G sheet with powder coated painting as per IS 13032 Universal mounting with copper busbar, neutral link, studs and inter connecting wires of 10 / 6 Sqmm for VTPN , 6 / 4 Sqmm wires for ETPN , SPN DBs as per requirement, both sides detachable glands plate with knockout with provision to mount DP / TP / 4P MCB as incomer and SP / TP MCB as a out goings. Legrand / Havells make. All MCBs should be C curve 10 kA breaking capacity				
4.1	8 way VTPN MCB Double door DB (MAIN DB)	Nos	1		
	Incoming				
	63 Amp 4P MCB --1 No				
	Outgoing				
	40 Amp TP MCB --1 No				
	32 Amp TP MCB -- 1 No				
	10/32 Amp SP MCB -- 12 No				
4.2	12 way SPN Double door DBs (Raw power DB)	Nos	1		
	Incomer : 32 A DP MCB -1 No				
	Outgoing : 10/16 A SP MCB -10 Nos				
4.3	12 way SPN Double door DBs (UPS DB)	Nos	1		
	Incoming ; 32 A DP MCB -----1 No				
	Out going : 10/16 A SP MCB -10 No				
	(For UPS points only)				
4.4	4 way ETPN Double door DB (AC DB)	Nos	1		
	Incomer : 32 A FP MCB -1 No				
	Outgoing : 16/20 A SP MCB - 6 Nos				
4.5	Supply and installation of the 20/32 Amp 230 V Metal clad Industrial Plug & Socket with 20/32 Amp DP MCB in sheet metal enclosure as UPS input & out put.	Nos	2		
5	Earthing system				
5.1	Providing and installation of 40 mm dia B class GI pipe 2.5 mtrs long earth station complying to Is 3043 complete in all respect with excavation in all type of soil, murrum or rock filling of charcoal, salt & providing watering funnel durable masonry chamber in rich plastered brick work and approved quality heavy duty CI chamber cover (450mmx450mm) etc .The earth pit identity shall be marked on the cover with paint.	Nos	1		
5.2	Providing and installation of copper plate earth station using 300x300x3mm copper plate connected along the length of pipe from bottom to top with 25 x 3mm copper strip with 40 mm dia B class GI pipe 2.5 mtrs long complete in all respect with excavation in all type of soil, murrum or rock filling of charcoal, salt & providing watering funnel durable masonry chamber in rich plastered brick work and approved quality heavy duty CI chamber cover (450mmx450mm) etc .The earth pit identity shall be marked on the cover with paint. Earth station shall be installed as per IS 3043.	Nos	2		

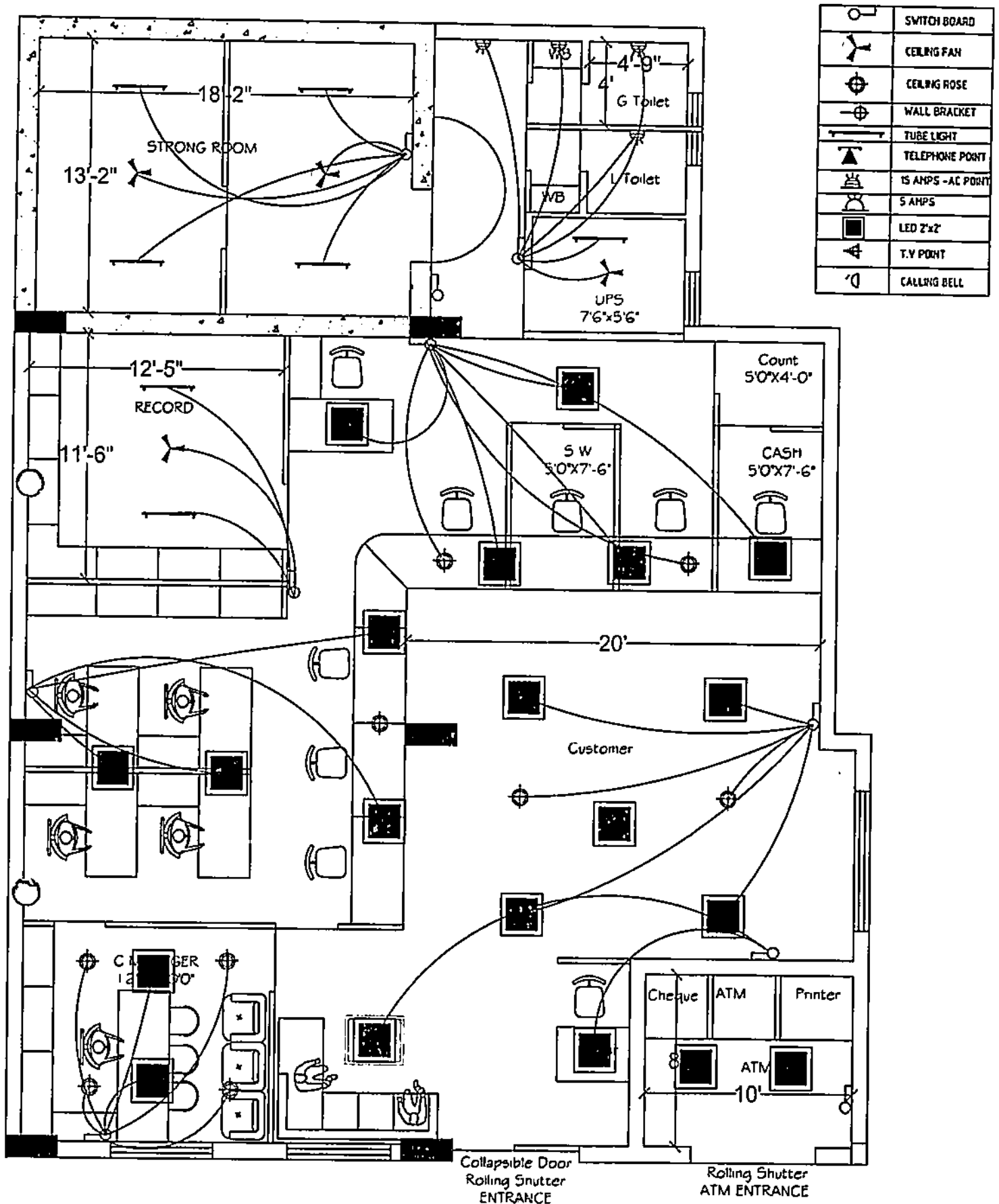
6	Supply and laying of Copper / GI Tape / GI Wire using necessary clamps as required.				
6.1	10 SWG copper wire drawn through 19 mm Dia medium gauge thick flame retardent PVC conduit (grey colour) with necessary accessories for UPS earthing.	Mtrs	35		
6.2	6 Sqmm PVC insulated multistrand copper conductor single core of 1100 V grade FR wires drawn through 19 mm Dia medium gauge thick flame retardent PVC conduit with necessary accessories.	Mtrs	35		
6.3	300mm long 25x3 copper earth bar.	Nos	2		
7	Telephone cables				
7.1	Supplying and laying of 2 pair 0.51 mm tinned copper unarmored PVC insulated telephone wire laying in 19 mm dia medium gauge thick flame retardent PVC conduit (grey colour) with accessories etc.	Mtrs	140		
7.2	RJ 11 telephone outlet modular type	Nos	12		
7.3	10 pair crone connector box with tag	Nos	1		
8	Fixtures:				
	Supply and installation of light Fixtures, fan etc using necessary accessories such as Anchore fastener etc as required at site. The rate includes storage and handling of the fittings. .				
8.1	Supply & Installation of 33/34W 2X2 LED Light fixtures (Havells - VENUSNEOHE2X2PLR34WLED8XXS or CROMPTON: LCTLRNE-36-FO-CDL or Philips RC 375B30S 6500K or Equivalent models in other approved makes) including cost and conveyance of all materials, taxes and all labor charges etc., complete. Weight of the light should not be on the grid/ Gypsum ceiling. light has to be fixed with the help of GI/chain wires and to the anchored to the ceiling.	Nos	14		
8.2	Supply & Installation of 15W LED down light fixture. (Havells:- Integra NEO15W, 857 CROMPTON: LCDRQ-15-CDL/LCDRO-15-CDL or DN296B LED15S 6500K in Philips or equivalent models in other make) including cost and conveyance of all materials, taxes and all labor charges etc. complete	Nos	10		
8.3	Supply and Installation of 20W Batten LED light fixtures SURFACE type with all interconnections and fixing arrangement as required. (LUMILINEBS18WLED857SPCWH - Havells or BN021-21S in Philips or CROMPTON: LDI-20-CDL or equivalent)	Nos	6		
8.4	48" or 1200 mm / 42" 1050 mm Ceiling fan of Crompton Greeves High Speed model ,Havells ,Almonard make with extra down rod as required with guarantee card etc.	Nos	10		
8.5	Providing and fixing 16" of grill roto wall mounted fan in specified areas in good condition of make Crompton/Usha/ Havells with guarantee card etc, complete this rate includes cost of all materials taxes and lift to the place of work.	Nos	2		
9	Providing and fixing of Heavy duty / Light duty Exhaust fan of make Crompton Trans Air Model /almonards / Havells etc.with civil works with louvers complete this includes cost of all material, taxes lead and lift to place of work.				
9.1	12" Exhaust Fan	Nos	1		
9.2	9" Light duty Exhaust Fan	Nos	2		

10	Supply installation testing & commissioning of the 63 Amp 4 pole MCB in metal enclosure suitable to end terminate 25 Sqmm UG armoured Al cable.	Nos	1		
11	Supply and fixing of the anchore fastner required for fixing of ceiling fan as required	Nos	16		
12	Supply and fixing of the Modular type electronic step regulator for ceiling fan.	Nos	10		
13	Providing and fixing of 2.5 sqmm 3 Core pvc insulated copper flexible wire of 4 Mtr length one end connected to the 6 A 3 pin top & another end connected to switch board inside the strong room.	Nos	2		
14	Main L.T.U.G Cables				
	Supplying and laying of 1100 V grade aluminum conductor ,steel armoured /AYFY cables, the cables shall be laid on (or on the under ground and refilling the trench with bricks etc if required .) clamped on the wall or structural support using the necessary accessories the cable shall be provided with cable identification tags, as required etc complete.				
14.1	4 C X 25 Sqmm A2XFY Aluminium Cable.	Mtrs	15		
14.2	4 C X 6 Sqmm 2XFY Copper Cable	Mtrs	15		
15	End Termination				
	Supply and providing end termination for above cables using the brass gland and copper lugs,etc as required.				
15.1	4 C X 25 Sqmm A2XFY cable	Nos	2		
15.2	4 C X 6 Sqmm 2XFY cable Copper Cable	No	2		
	TOTAL (A)				
	NAME OF THE WORK:- DETAILED ESTIMATE FOR CABLING WORK AT				
	KC ROAD BRANCH BALLARI				
Sl no	Particulars	Unit	Qty	Rate	Amount
1	Supply and drawing of UTP cable CAT 6E adhering to ISO/ IEC 11801 standards in existing PVC pipes of makes Molex/D-link or equivalent	Rmt	250		
2	Supply and fixing/ termination of cable of single UTP information outlets of following makes with brunt plate stack box including feruling	No	15		
3	1 meter	No	15		
4	2 meter	No	15		
5	Supply and fixing of 9U closed metal rack with glass door and 6" magnetic fan on wall with necessary frame works.	No	1		
6	Supply and fixing of 24 port patch/ Jack panels	No	1		
7	Providing and laying PVC conduit of 2mm thick 50mm dia of Uniplast, VIP makes on wall/ floor	Rmt	75		
			TOTAL (B)		

**ESTIMATE FOR ELECTRICAL WORKS & ELECTRICAL FIXTURES FOR UNION BANK OF INDIA KC
ROAD ATM PREMISES,BALLARI**

S/no	Particulars	UNIT	Qty	Rate	Amount
1	S / I / C of 415V.MCB DB. with double door and Havell's make comprising of:				
	(a) 32A.TPN. MCB for Main. 1 no.				
	(b) 32A SPN. MCB for UPS. 1 no.				
	(c) 25A SPN. MCB for lighting & A.C. 2 no.				
	(d) 25A.2P,100mA.RCCB for lighting				
	And A.C. 2 no.				
	(e) 20A. SP. MCB for Board light. 1 no.				
	The DB shall be complete with internal connections using 4 sq mm copper wires,				
	Blank plates and neat labeling	set	1		
2	S/I of 230V. MCB. DB in sheet steel enclosure of Havell's make for UPS out put and comprising of :				
	(a)20A.SPN. MCB. 1 no.				
	(b) 10A SP. MCB. 3 no.				
	(c) 16A. SP MCB. 1 no.				
	The DB shall be complete with internal Connections and labeling.	set	1		
3	S/I of metal clad Industrial Socket with Metal enclosure and 25A.DP.MCB. for the incoming of UPS with connections using 4 sq mm copper wires	set	2		
4	-Do-as above, but without MCB for the out put of UPS.	set	1		
5	-Do- as above, but with 20A DP.MCB for the A.C unit.	set	1		
6	S/I of 16A. Socket, Switch Neon Indicator of Modular type on moulded gang box for the machine, Raw power points and Access lock	no	2		
7	S/I of 3no. 6Asocket, 1no.10A switch1nindicator modular type on moulded gang box	set	2		
8	S/I of 16A socket only on moulded gang Box for the A.C in door unit	set	2		
9	Supply & fixing of MDS / Indo Asian / L & T Make Time switch With 20A. Loading capacity, 24 hours Time setting facility complete with terminal cover mounting box (Hylum / Metal / PVC) of suitable size, Connected to 16A / 20A. MCB of Main DB,supplying and fixing of L&T / BCH make power contactor for lighting and UPS lights complete with internal connections using 4sq mm wires and all	set	1		
10	Providing conduit wiring for the light / Fan / EF / Call Bell points using 3 wires of 1.5 sqmm multi-strand copper wires in 19 mm dia.PVC conduits run either concealed or open using necessary fixing materials and white 3plate ceiling Rose / Lamp Holder on PVC Round Block and Modular				

	type one way 6A Switch with front plate on	no	6		
11	Providing 6A dependent plug point with Socket and Switch mounted on common Switch Board	no	2		
12	Providing copperplate Earth Electrode station 2.6 meter deep using 600 x 600 x 3.15 mm size GI. plate, 40 mm dia. perforated GI pipe with funnel at top, a mixture of at least 25 Kg Salt, 50 Kg Charcoal and Sand mixture filled 150 mm all-round the plate and the pipe. This includes providing Brick / RCC chamber of size 15" x 15" x 12" clear with a heavy duty enamel cover, so as to obtain the Earth resistance value of less than 5 ohms. The Earthling shall be done at least 1.5 meter away.	set	1		
13	Supply and laying of 10 SWG copper Earth wire in PVC conduits with fixing materials	rmt	22		
14	Supply & running of 2 x 4 sq mm + 1 x 2.5 sq mm copper wires in 19 mm dia. PVC conduits for Board lights and AC.	rmt	22		
15	Supply & running of 3 x 2.5 sq mm copper wires in 19 mm dia. PVC conduits for Lighting circuits and also for lighting circuits.	rmt.	48		
16	Supply and installation of Down light of 15 Amps	set	4		
17	S / I of 25 W LED BULB at The Entrance	no	1		
		TOTAL (C)			
	TOTAL(A+B+C)				
	ADD CGST 9%				
	SGST 9%				
	GRAND TOTAL				



GROUND FLOOR PLAN

PROPOSED PLAN SHOWING ELECTRICAL WORK OF UNION BANK OF INDIA KC ROAD BRANCH, BALLARI.

SCALE. N.T.S. CHKD BY. R.K.G
DESIGN. PAVAN R G DATE. 02-06-2022
DRAWN. SMITHA

DRAWING TITLE:

Carpet Area

5ft



RAJU K. GOWDA

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