

CANARA BANK

INVITATION TO TENDER

ONLY FOR EMPANEL CONTRACTORS FOR

ELECTRICAL WORKS (CATEGORY A,B,C ONLY)

OF

CIRCLE OFFICE GUWAHATI

TENDER FROM ANY OTHER CONTRACTOR WILL BE SUMMARILY REJECTED

INSTRUCTION TO BIDERS AND

GENERAL CONDITIONS OF CONTRACT

FOR

ELECTRICAL WORKS

AT

CANARA BANK – KAMARKUCHI BRANCH

TENDER NO.: 47/24-25/SP

NAME OF THE CONTRACTOR:

.....

ADDRESS:

.....

SEAL & SIGNATURE OF TENDERER

NOTICE INVITING THE TENDER

To,

M/s

Sealed tenders on item rate basis are invited from panel Contractors for **Electrical Works at KAMARKUCHI BRANCH**. Tender Documents may be obtained at free of cost from the Premises & Estate Section, Circle Office Canara Bank, Guwahati during working hours from **29-11-2024** till **05-12-2024**.

Earnest Money Deposit : **NIL**

Period of completion : **20 days**

Last date, time and place for Submission of tender : **On or before 3 pm, 05-12-2024 to
The Asst. General Manager,
Premises & Estate section
Canara Bank, Circle Office
Guwahati**

Time and date of opening of tender : **3.30 Pm on 05-12-2024**

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

**Asst. General Manager
Premises & Estate Section
Canara Bank, Circle Office
Guwahati**

.....

Date: 29-11-2024

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GENERAL RULES & INSTRUCTIONS TO TENDERERS

Name of the work: Electrical Works to be carried out at KAMARKUCHI BRANCH Branch.

The rates quoted shall also be inclusive of materials, labour charges, work contract tax, surcharge and all the taxes except GST.

GST WILL BE PAID EXTRA.

The rates quoted by the tenderer shall hold good till the completion of the work from the date of issue of the "WORK ORDER" and no enhancement in the rates are allowed during the period of execution of the work under any circumstances. The rates quoted shall also cover for the work to be executed before and after office hours and also on holidays.

The time stipulated for the completion of the work is 20 days from the date of issue of the WORK ORDER and the work is to be carried out as per the convenience of occupants without disturbing other occupants of the building.

TENDERS:

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed on the last page together with initials on every page. Initials / signatures will indicate the acceptance of tender papers by the tenderers.

The schedule of quantities shall be filled in as follows:

- The "rate" column to be legibly filled in ink in both English figures and words.
- 'Amount' column to be filled in for each item and the amount for each sub-head as detailed in the "schedule of quantities".
- All corrections to be initialed.
- The "Rate" column for all the items shall be filled up.
- The "Amount" column for the items for which the quantities are not mentioned shall not be filled up.
- In case of any errors / omissions in the quoted rates, the rates mentioned in the tender in words shall be taken as correct rates.

No modifications, over-writings or corrections can be made in the tender papers by the tenderer, but may at his option offer his comment or modifications in a separate sheet of paper attached to the original tender papers.

The Bank reserves the right to reject the lowest or any tender or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.

The tenderers should note that tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self – supporting. If called upon by the bank, detailed analysis of any or all the rates shall be submitted. The architects/bank shall not be bound to accept the contractor's analysis.

The Quantity mentioned in the BOQ is approximate measurements. The works will be paid for as "measured work" on the basis of actual work done and not as "lump sum" contract.

All the items of 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 the case of lump-sum charges in the tender in respect of an item of works, the payment of such items of work will be made for the actual work done on the basis of lump-sum charges as assessed to be payable by the architects/bank.

The bank has power to add or delete any work or described in specifications or included in schedule of quantities and intimates the same in writing but no addition, omissions or variation shall be made by the contractor without authorization from the bank. No variation shall vitiate the contract. The bank reserves the right to delete any of the items in the tender without assigning any reasons whatsoever.

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The tenderer shall note that his tender shall remain open for consideration for a period of 90 days from the date of opening of tender.

AGREEMENT

The successful contractor is required to sign agreement as may be drawn up to suit the local conditions and shall pay for all the stamps and legal expenses incidental thereto. The original will be kept with the Bank and duplicate with contractor.

EARNEST MONEY AND SECURITY DEPOSIT:

There is NO Earnest Money Required to deposit/ submit along with the bids. Retention Money shall be deducted from the final bill at 3% of the gross value of bill. The Retention amount will be refunded to the contractor 15 days after the end of defects liability period provided he has satisfactorily carried out all the work and attended to the entire defect in accordance with the condition of the contract. No interest is allowed on Retention Money.

A part of the Security Deposit if and as decided by the constituent bank can also be furnished in the form of a Bank Guarantee on the bank other than that of the constituent bank.

CONTRACTOR TO PROVIDE EVERYTHING NECESSARY:

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of the quantities and specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the contractor finds any discrepancies therein he shall immediately and in writing, refer the same to the Architects/Bank whose decision shall be final and binding.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of works within the contemplation of the contract, and beyond the unit price. No extra payments will be allowed for incidental or contingent labour and/or materials inclusive of all taxes and duties whatsoever except for specific items, if any, stipulated in tender documents

The contractor shall supply, fix and maintain at his own cost, for the execution of any work, all tools, tackles, machineries and equipments and all necessary scaffolding, staging and lighting by night as well as by day required not only for proper execution and protection of the said work.

The contractor shall take down and remove any or all such scaffoldings as occasion shall be required or when ordered to do so, and shall fully reinstate and make good all matters and things disturbed during the execution of work to the satisfaction of architect/bank.

The contractor shall all times give access to workers employed by the bank or any men employed at site and to provide such parties with proper sufficient and if required, special scaffolding and ladder and provide them lighting as may be required to enable such workmen to inspect the work, lay or fix pipes, Civil & furnishing wiring, special fittings etc. The quoted rates of tenderers shall accordingly include all these above-mentioned contingent works.

LIQUIDATED DAMAGES:

Should the work be not completed to the satisfaction of bank within the stipulated period, the contractor shall be bound pay the bank a sum calculated as given below by way of Liquidated Damages after the expiry of completion date

1.00% of the estimated amount shown in the tender per week subject to a ceiling of 10% of the accepted contract sum.

| |
|--|
| TIME PERIOD FOR COMPLETION: 20 days from the date of award of work. |
|--|

FINAL PAYMENTS

The final bill shall be accompanied by a certificate of completion from the Occupant/Bank Officials. Payments of the final bill shall be made after deduction of retention money as specified in clause 9 of these conditions which sums shall be refunded after the completion of the defects liability period after receiving the banks certificate that the contractor has rectified all defects to the satisfaction of the banks. The

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acceptance of payments of the final bill by the contractor would indicate that he would have no further claims in respect of the work executed.

ESCALATION:

The rates quoted shall be firm throughout the tenure of the contract [including extension of time, if any granted] and will not be subject to any fluctuation due to increase in cost of materials, labour, sales tax, octroi etc, unless specifically provided in these documents.

CONTRACTORS EMPLOYEES:

The contractor shall employ technically qualify and competent supervisors for the work who shall be available [by turn] throughout the working hours to receive and comply with the instructions of the bank officials. The contractor shall engage at least one experienced engineer, as site in-charge for the execution of the work the contractor shall employ in connection with the work persons having appropriate skill or ability to perform their job efficiently. The contractor shall employ local labours on the work as far as possible. No laborers below age of 16 and who is not an Indian national shall be employed on the work. Any laborers supplied by the contractor to be engaged on the work on day-work basis either wholly or partly under the direct order or control of bank or its representative shall be deemed to a person employed by the contractor.

The contractor shall comply with provision of all labour legislation including the requirements of

- a. Payments of minimum wages act
- b. Employers liabilities
- c. Workmen's compensation act
- d. Contract labour (regulation and abolition) act, 1970 and central rules 1971
- e. Apprentices act 1961
- f. Any other act or enactment relating thereto and rules framed there under from time to time

The contractor shall keep the bank saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the bank in connection with any claim that may be made by any workmen.

The contractor shall comply at his own cost with the order of requirement of any health officer of state or any local authority or of the bank regarding the maintenance of proper environmental sanitary condition of the area.

The contractor shall arrange to provide first aid treatment to the laborers engaged on the works. He shall within 24 hrs of occurrence of any accident at or about the site or in connection with execution of work, report such accidents to the bank and also the competent authority where such report is required by law.

The contractor shall obtain all Risk Insurance Policy at their cost within 7 days of commencement of work, for the laborers/workmen working at the site including the work till the work is completed. The policy shall be in the joint name of the Bank and contractor and Bank's name shall appear First.

PAYMENTS:

The contractor, in the form prescribed by the bank shall prepare all the bills and submit the same to Bank with measurement of work. Normally one interim bill shall be prepared each month. Bank may release payment within 15 days of receipt of bills/after check measurement, after deduction of retention money, Income Tax etc. The contractor shall have a competent engineer at site for the supervision of the work.

The contractor shall have to make his own arrangements for watch and ward of the work/building, till the work is handed over to the bank.

The decision of the bank will be final and binding with regard to the quality of work is concerned.

The contractor is responsible for procuring the required materials for the work and stores the same at site at his cost and risk.

The amount stated in the interim certificate shall be the 75% of total value of the work executed up to date of the bill, less the amount to be retained by the bank as retention money. If the bank has supplied any materials or goods to the contractors, the cost of such materials will be progressively deducted from the amount due to the contractor on accordance with the quantities consumed in the work. All the interim payments shall be regarded as payments by way of advance against the final payment only and not as payments for works actually done and completed and shall not preclude the requiring of bad, unsound or

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imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the contract or any part thereof if any respect or accruing of any claim nor shall it conclude, determine of effect in any way the power if the bank under conditions or any of them add to the final settlement and adjustment of the accounts or otherwise or in any other way or affect the contract.

The contractor shall submit the final bill within one month from the date of completion of the work. A certificate of completion from the bank shall accompany the final bill. The payment of the final bill shall be made after deduction of retention money as specified elsewhere in these documents.

ARBITRATION:

All disputes or differences of any kind whatsoever which shall at any time arise between the parties here to touching or concerning the works or the execution or maintenance thereof of this contract or the rights touching or concerning the works or the execution of maintenance thereof of this contractor or the construction remaining operation or effect thereof or to the rights or liabilities of the parties are arising out of or in relation thereto whether during or after determination foreclosure or branch of the contract [other than those in respect of which the decision of any person is by the contract expressed to be final and binding] shall after written notice by either party to the contract to the other of them and to the employer hereinafter mention to deal referred for adjudication to a sole arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole arbitrator referred to above, the employer will send within 30 days of receipt of the notice, to the contractor a panel of 3 names of persons who shall be presently unconnected with the organization for which the work is executed.

The contractor shall on receipt of the names as aforesaid, select, anyone of the person's name to be appointed as a sole arbitrator and communicate his name to the employer within 30 days of the receipt of the names. The employer shall thereupon without any delay appoint the person as the sole arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the competent authority shall make the selection and appoint the selected person as the sole arbitrator.

If the employer fails to send to the contractor the panel of 3 names as aforesaid within the period specified, the contractor shall send to the employer a panel of 3 names of persons who shall be unconnected with either party. The employer shall on receipt of the name as aforesaid select anyone of the person's names and appoint him sole arbitrator. If the employer fails to select the person and appoint him as a sole arbitrator within 30 days of the receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from the panel as the sole arbitrator and communicate his name to the employer.

If the arbitrator as appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be appointed as aforesaid.

The work under contract shall, however, continue during arbitration proceedings and payment due or payable to the contractor shall be withheld on account of such proceedings.

The arbitrator shall be deemed to have entered on the reference the date he issued notice to both the parties fixing the date of the first hearing.

The arbitrator may from time to time, with the consent of parties, enlarge the time or making and publishing the award.

The arbitrator shall give a separate award of each disputes or difference referred to him. The arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasonable award. The venue of arbitration shall be such place as may be fixed by the arbitrator in his sole discretion.

The fee, if any, of the arbitrator shall, if required to be paid before the award is made and published, be half and half by each of the parties. The cost of the reference and of the award including the fees, if any, of the arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and may fix or settle the amount of costs to be so paid.

The award of the arbitrator shall be final and binding on both the parties.

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Subject to aforesaid the provision of the arbitration act 1940 or any statutory modification or re- enactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

The employer and the contractor hereby also agree that arbitration under the clause shall be a condition precedent to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

Date:

**Signature of the Contractor
With seal and address**

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LIST OF PREFERRED MAKE / BRAND ALL WORKS

| Sr.No. | LIST OF NOMINATED MATERIALS & SUPPLIERS | SUGGESTED MAKE LIST |
|--------|---|---|
| 1 | ELECTRICAL | |
| | Light Fittings | Philips / Wipro / Havells / Crompton G. |
| | MCCB, MCB , RCCB, DB, ICTPN TP, HRC Fuse, change over switch, switch fuse Unit | L&T, ABB, Legrand, Havells, Schneider |
| | FRLS insulated Elec. Wire/ cable armoured, unarmoured, Sheathed, unSheathed, flexible LT cable, Multi core, single core cable, flat cable | Finolex/Ploycab/Havells/RR kabel/KEI |
| | PVC conduit(HEAVY DUTY ONLY) | CAP/Finolex/Polycab |
| | PVC insulated copper conductor Wires | Finolex/ Polycab/RR Cable /Havells |
| | Distribution Box | Legrand/ Schneider/ Havells /Siemens |
| | MCB & MCCB | Legrand/ Schneider/ Havells /Siemens/L&T |
| | Light Fixture & Lamps | Philips/ Wipro / Havells / Crompton G. |
| | HT cable | Polycab/Havells |
| | Modular Switches | ABB/ Legrand/ MK/ANCHOR/ Havells /ROMA |
| | DLP Trunking | Legrand/Schneider or equivalent |
| | Power cable | CCI/ Skytone/ Universal/ LAPP/ Torrent |
| | End Termination | Raychem/ Mahindra/ELMEX |
| | PANEL | Crompton/L&T/C&S |
| | Fan | Crompton/Havells/Bajaj/Usha |
| | Raceway & Alu. Trunking | Tata/Jindal/Zenith |
| | Casing Caping | Finolex/Cap or equivalent |
| | Weather proof socket outlet with MCB | ABB/MDS/LEXIC/Neptune/Elcon- Clipsil, Siemens, Schneider (Merlin Gerin) |
| | Miniature Circuit Breaker | ABB/MDS/LEXIC/ Clipsil/Siemens/ Havells |
| | Earth Leakage Circuit Breaker | MDS/LEXIS/Siemens/ Havells |
| | MCB Distribution Boards in sheet steel housing (double door) | ABB/MDS/LEXIC/Siemens/ Havells |
| | Telephone Cable | Skytone/ Delton/ NICCO/Polycab/Finolex |
| | Switch, TV & Telephone socket & boxes (Modular Type) | CPL/Legrand/ABB/Anchor |
| 3 | Miscellaneous Items | |
| | Lightning Protection Unit | Erico/ Pheonix/ INDELEC |
| | Relays | L&T/ABB/Siemens/BCH |
| | Contractors | L&T/ GE Power/BCH/ Siemens/ABB |
| | Changeover switch | C&S/Havells/ L&T/HPL |
| | KWH, PF, Frequency meter | BHEL/ AE/Havells/ L&T/ALSTOM |
| | Push Buttons | L&T/ Siemens |
| | Timers | L&T/ Legrand/ Schneider/Siemens/GE |
| | Timer Switch | L&T/ Legrand/ Schneider/Siemens/GE |
| 4 | Networking | |
| | Switches | Brocade/Cisco/DigiLink/3Com/Nortel/Foundry/D-Link |
| | Patch Panel, Patch cord and I/o | Digi-Link / Tyco(AMP) /Schneider/D-Link |
| | Cable | Digilink/Clipser/National/Polycab/Lapp/Finolex |
| | Racks | ComRack / HCL / ValRack / APW President |

NOTE: The contractor shall use only above mentioned material to be approved by the Consultant. All other materials shall confirm to the specifications laid down. The tenderers shall take this into account while tendering rates / prices.

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ELECTRICAL WORKS FOR Canara BANK- Kamarkuchi Branch

GENERAL NOTE

| | |
|---|---|
| 1 | UPS input and Output wiring should be done with FRLS Insulated stranded copper conductor laid through M.S Conduit. (From input DB to UPS and from UPS Output to UPS Output DB) |
| 2 | All wires for circuit wiring and other wiring should be drawn inside M. S. Conduits Only unless otherwise specified |
| 3 | Specifications of all wires should be followed strictly as mentioned in the BOQ |
| 4 | All makes of materials should be strictly followed as mentioned in the detailed specifications of the Tender document |
| 5 | Earthing Test Certificate MUST be provided alongwith the Final bill for further bill verification |
| 6 | Single Line diagram showing the all the wiring including point wiring, computer and RAW power wiring, Circuit wiring etc. all complete should be submitted with the Final Bill |
| 7 | Only DATA and Voice point wiring is allowed to be carried out through MS Conduits |

PART A: ELECTRICAL WORKS

| Sl. No | Description | Unit | Qty | Rate | Amount |
|------------------|--|------|-----|------|--------|
| SECTION-A | | | | | |
| 1 | PVC board for Fitting of indicator Bulbs directly connected from LDB, PDB, ACDB and UPS DB with necessary holders etc. with proper marking 8 Module (125mmX125mm) | No. | 1 | | |
| 2 | Main Distribution Board | | | | |
| a | Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and up to the terminal connectors/ neutral link and ready for installation of following ways as required. | | | | |
| b | Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc.& 'D' curve for UPSDB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B, C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load. | | | | |
| c | Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A. | | | | |
| d | UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link. | | | | |

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| e | All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating. Inside each DB, a DB chart is to be fixed. | | | | |
| 2.1 | S.I.T.C. of TPN 6 way Double Door Vertical Distribution Board with following M.C.B./M.C.C.B./RCCB & cable end boxes at Input & Output. [Main VTPN] | | | | |
| a | 4 Pole ,Type C, 63 Amp 30KA MCB as Incomer - 1 no.s 25A DP "C" Class MCB . for input to LDB - 1 Nos 40A DP "C" Class MCB for input to Raw PDB- 1 Nos. (Water Dispenser, Mobile Charger & Ancillary services Load) 40A DP "C" Class MCB for input to ACDB- 1 Nos. 25 DP "C" Class MCCB for Inverter INPUT AND OUTPUT- 2 Nos, <u>Note- Rates Shall be inclusive of S.I.T.C. 3X35 sqmm Armoured alluminium cable from the Main LT panel to the main DB including 4 X10 Sq.mm. F.R.L.S. Copper Flexible wires with 2 X 10 Sqmm Copper Earth Wires in Rigid MS conduit from 100 A MCCB in Metal Box (Metering Cabinet) at the output of Br. Meter to Main DB and any other ancillary items as directed by Engineer-in-Charge/ Architect.</u> | No. | 1 | | |
| Section B | | | | | |
| 3 | MCB DISTRIBUTION BOARD | | | | |
| | Supplying, installation, testing and commissioning of surface/recess mounting, 220/415 volts prewired MCB distribution boards with all switchgears as specified below, of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 amps tinned uniformly rated electrolytic copper bus-bar, common neutral link, earth bar, din bar for mounting MCB/MCCB/RCCBs detachable gland/knock out plates and with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR MS insulated copper conductor upto the terminal connector/neutral link and ready for installation as specified below: | | | | |
| 3.1 | S.I.T.C. Of L.D.B. [MCB DB- LIGHT] (LIGHT DB) | | | | |
| a.1 | S & I of 4 Way, IP 43 PPI TPN Horizontal Distribution Board for distribution to all Light points of different areas (as indicated in the circuit diagram), having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) - 25A, 10kA, TPN MCB as incomer - 1 Nos, output of which is directly connected to 5W Red colour indicator Light With 3 No of 25 A DP RCCB (30 mA) each phase Outgoing. 6/10 Amp (10 KA) SP MCB as outgoing -4 Nos. | No. | 1 | | |

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| | <u>Note- Rates Shall be inclusive of S.I.T.C. of 3X 6+1x4 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main D.B To L.D.B</u> | | | | |
| b | S.I.T.C. Of P.D.B. [MCBDB-POWER] (Raw Power DB) | | | | |
| b.1 | S & I of 4 Way, IP 43 PPI TPN Horizontal Distribution Board for distribution to all raw power points of different areas (as indicated in the circuit diagram), having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) - Incomer 40Amp 10kA, TPN MCB - 1 No . output of which is directly connected to 5W Yellow colour indicator Light With 3 No of 25 A DP RCCB (30 mA) each phase 16A SP MCB-2 Nos. 10A SP MCB- 5 Nos. with all wiring connections.(Max. 3 Points to be looped on one MCB, 4 nos. in exceptional case.) | No. | 1 | | |
| | <u>Note- Rates Shall be inclusive of S.I.T.C. of 3X 6+1x4 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main D.B To RPDB</u> | | | | |
| c | S.I.T.C OF U.P.S. D.B. : (MCBDB-UPS) | | | | |
| | S.I.T.C. of 8 way Single Door SPN D.B. with Incomer 25 Amp 10kA DP MCB - 1 No output of which is directly connected to 5W Blue colour indicator Light 10A SP MCB- 6 Nos. with all wiring connections.(Max. 3 work-Station Points to be looped on one MCB, 4 nos. in exceptional case.) | No. | 1 | | |
| | <u>Note- Rates Shall be inclusive of S.I.T.C. of 3X 6+1x4 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main D.B To UPS D.B</u> | | | | |
| d | S.I.T.C OF U.P.S. D.B-2 : (MCBDB-UPS 2) for connction to Fire alarm/ BAS/ CCTV/ Network switch etc. directly connected from VTPN UPS output | | | | |
| | S.I.T.C. of 6 way Single Door SPN D.B. with Incomer 25 Amp 10kA DP MCB - 1 No 10A SP MCB- 4 Nos. | No. | 1 | | |
| | <u>Note- Rates Shall be inclusive of S.I.T.C. of 3 X 4 Sq.mm. F.R.L.S. Copper Flexible wires in Rigid MS conduit from Main DB to MCBDB-UPS-1. (body to be earthed)</u> | | | | |
| d | S.I.T.C of 32 Amp. D.P. MCB in Metallic box for Inverter I./P. & O/P to LDB | No | 1 | | |
| e | S.I.T.C of 32A DP MCB in Metallic box for UPS I./P.& O./P. | No | 1 | | |
| f | <u>S.I.T.C. Of ACDB [MCB DB- AC] - If Required as per Bank approval</u> | | | | |

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|-------|---|------|----|--|--|
| | S & I of 4 Way, IP 43 PPI TPN Horizontal Distribution Board for distribution to all AC points of different areas (as indicated in the circuit diagram), having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) - Incomer 40Amp 10kA, TPN MCB - 1 No . output of which is directly connected to 5W Green colour indicator Light With 3 No of 25 A DP RCCB (30 mA) each phase Outgoing. 20A SP MCB-6 Nos. | No. | 1 | | |
| | Note- Rates Shall be inclusive of S.I.T.C. of 4 x 6.0mm² + 2x4.0 mm² F.R.L.S. copper flexible wires in 19/20 mm. Medium Guage MS conduit from Main Panel To ACDB | | | | |
| | SECTION-C | | | | |
| 4 | POINT WIRING | | | | |
| 4.1 | Supply & Installation of concealed point wiring using 3 x 1.5 sqmm stranded FRLS copper conductor in <u>M.S Conduit</u> including the cost of circuit wiring from the relevant DB's with 3x 1.5 sq mm stranded FRLS copper conductor in <u>M.S Conduit</u> . PIN GRIP Lugs should be used for connection/ terminations at both the ends with proper colour coding of phase, neutral and earth wire (Phase R,Y,B Neutral-Black & Earth - Green Colour). The rate shall also include concealed M.S Box, Cover Plate and Switches of grid plate type switches and sockets of approved shade and make as approved by Bank / Architect. Each circuit should not have more than 8 points / 800 W in one loop as per the following configuration. | | | | |
| a (i) | Primary & Loop light points including the cost of 6A switch (Single Point-13 Nos. Double Loop Points- 12 Nos, Triple Loop point-3 No.) | Pts | 34 | | |
| (ii) | Primary light points including the cost of 6A switch in UPS Power | Pts | 7 | | |
| b | Secondary 6A Plug point on switch board. [SO] | Pts | 2 | | |
| c | 16/6 A Plug Point directly taken from PDB for hotplate/geyser / zerox / fridger etc. | Pts | 2 | | |
| d | Exhaust fan/ Wall Fan point consisting of 6A socket near fan and switch on light switch board | Pts | 11 | | |
| e | Wiring for Signages with 2R x2.5 Sq.mm and 1 Rx 1.5 Sq.mm, PVC insulated copper conductor flexible cable to be connected to the SPN D/D consumer along with a Timer and Contactor unit installed in Electrical Room room | Set | 1 | | |
| f | S.I.T.C. of call bell with bell point . | Nos. | 1 | | |
| 4.2 | COMPUTER/ RAW POWER WIRING | | | | |
| | Note- All sockets should be placed below the workstations as mentioned in the drawings but the controlling switch should fixed above the work stations and at place as directed by the architect | | | | |

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|------------------|--|------|----|--|--|
| a | Supply & Installation of concealed UPS or stabilized power plug points on workstations / table for computers using 3 x 2.5 sqmm stranded FRLS copper conductor in <u>M.S Conduit</u> including the cost of circuit wiring from the relevant DB's with 3 x 4.0 sq mm stranded FRLS copper conductor in <u>M.S Conduit</u> . PIN GRIP Lugs should be used for connection/ terminations at both the ends with proper colour coding of phase, neutral and earth wire (Phase R,Y,B Neutral-Black & Earth - Green Colour). Each point shall consist of 3 Nos of 6A/16A 2 / 3 Pin sockets and 1 No 16A switch, wired together forming one point. Switches and sockets to be of approved shade and make. (Only 2 tables served by one circuit from UPS DB/ Not more than 2 points shall be permitted per loop) Cost is inclusive of necessary cutting the walls/ partitions and carrying all the wires through <u>M.S Conduit</u> and ageing finishing the walls with Putty/ Cement/ POP to receive the final paint.. [SOC] | Pts | 7 | | |
| b | S & I of points similar to above but to be used as raw power point on the tables consisting of one 6/16A socket with switch of other color and flexible cable of black color & circuit taken from Raw Power DB (2 tables (Maximum 3) served by one circuit from LDB/PDB) Taken Above False ceiling and through walls/ partitions inside M.S. Conduits as raceways are not provided. Cost is inclusive of necessary cutting the walls and including M.S. Conduits as required for taking the wires. | Pts | 10 | | |
| SECTION-D | | | | | |
| 5 | MODIFICATIONS OF EXISTING EARTHING | | | | |
| 5.1 | Testing, Checking and rectifications of existing Earthing of the branch.The work shall include repairing of existing eath pit so as to obtain the desired earthing output as per bank's standards and Re-Wiring and Re-connecting with minor rectifications as may be required for Earthing as per the existing site conditionsThe rate shall be inclusive of necessary 8 SWG dia copper wire on surface or in recess for loop earthing as required. <u>EARTHING TEST CERTIFICATE SHOULD BE SUBMITTED ALONGWITH THE FINAL BILL FOR FURTHER PROCESSING OF THE BILL</u> | Each | 2 | | |
| SECTION-E | | | | | |
| 6 | LIGHTING FIXTURES (Bajaj or equivalent) | | | | |
| 6.1 | S & I of lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant. | | | | |
| a | <u>PANEL LIGHT [PL]</u> - Ultra Slim LED Panel made from extruded aluminium housing frame (recess / pendant) 2ft x 2ft , Wattage-30W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect. | No | 16 | | |

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| b | <u>DOWN LIGHT [DL]</u> - Round LED recess-mounted designer panel with aluminium die cast housing , Wattage-18W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect. | No | 15 | | |
| c | S.I.T.C. of 12/13 Watt 6000/6500 K,(≥720 lumens) Recessed/Surface mounted LED Down Lighting Fixtures with fixing accessories. As Emergency Light | No | 7 | | |
| d | <u>1200 MM TUBE LIGHT [TL]</u> - LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-20W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect. | Each | 6 | | |
| | <u>600 MM TUBE LIGHT</u> - LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-10W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect. [FL] | Each | 2 | | |
| 6.3 | Supplying including fitting fixing of following star rated new 450 mm dia bracket/wall fan in metal body and metal blade of Orient Electric (TORNADO Wall Black Metal) or equivalent of approved make , complete with all accessories with necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Bank | | | | |
| | a) 400- 450 mm sweep | EACH | 8 | | |
| 6.4 | Supply and fixing of 10" - 12" Metal bladed exhaust fans with louvers.[EF] | EACH | 3 | | |
| 7 | WIRING FOR DATA AND VOICE OUTLETS | | | | |
| a | Supplying, laying and termination of 4 pair Copper solid, twisted pair G600 CAT--6 cables through specified dia MS conduits / raceways. Cables must meet and exceed category 6/ class E standards requirements in ISO/IEC11801, CENELEC EN50173 & TIA 568-B2-1. and providing & terminating with RJ-45 (Krone make) with face plates / I/O Ports in suitable modular / MS box from server / EPABX room to individual work stations and terminating other end with RJ-45 connector including numbering with ferule. Note- Rates shall be all inclusive as mentioned in the description above and the payment for the same item shall be made on the number of points provided based on the above description. | | | | |
| 7.2 | Outlets with Back Box & Single Face Plate & Termination Of LAN Cable etc. of Compscope/ D'Link Make (Including One extra in BM and 1 No for CCTV) | Nos | 2 | | |
| | Same as above but with Double Face Plate & Termination Of LAN Cable etc. of Compscope/ D'Link Make | Nos | 5 | | |
| | Testing, Labelling, scanning of I/O Nodes & submission of report. | Nos | 12 | | |
| | Re wiring & Re-use of Existing Jack Panels | Nos | 1 | | |
| | S.I.T.C. of 3 Ft. Factory Crimped Mounting Cords Same Makes as in Item no b. | Nos | 12 | | |

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| | S.I.T.C. of 7Ft. Factory Crimped Mounting Cords .Same Make as Item No b. | Nos | 12 | | |
| | Re wiring & Re-use of Existing Network Rack with proper dressing of cables | Nos | 1 | | |
| 8 | A.C POINT WIRING | | | | |
| | A.C. power point wiring from AC DB with 1100 volt grade 2 Nos. single core 6 sq.mm. + 1 No. 4 sq.mm. (Green colour for earthing) PVC insulated flexible FRLS copper conductor cable through suitable size M.S. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall complete with North-West make AC power unit having 25A DP MCB with enclosure, 25A Socket, 20A Starter, mounting box & front plate, interconnection, mending good all damages to original finish, painting etc. as required. All connections of wires to be done by means of 'Wago' type connectors. Each Ac will be connected through Inverter to be located near the ACDB. Rates shall be inclusive of cost of wires, wirings, sockets,starter, testing all complete | NOS | 5 | | |
| 9 | MISCELLENOUS WORKS | | | | |
| 9.2 | 4 Pole 63 Amp Manual Changeover Switch For Mains to D.G. supply switching (If D.G. Back-up is provided). Rates shall be inclusive of complete wiring and no payment for wiring shall be entertained for this item of work | No | 1 | | |
| 10 | DISMANTELLING AND PROVIDING TEMPORARY CONNECTION ON WORK STATIONS AND AT PLACES AS DIRECTED BY THE BRANCH | Nos | 1 | | |
| 10. 1 | Dismantelling works includes dismantelling of existing Light fittings and fixtures, fans, call bell, computer points, switch boards, sockets, switches, DB's, Panels, Wires & cables etc all complete and other related items for electrical works as may be required for re-furnishing a branch premises including removal of debris from the site. The scope of works shall also including providing all temporary connection including LAN points to work stations wherever required so as have a smooth functioning of the branch during the process of the branch furnishing. | | | | |
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| A | TOTAL OF ELECTRICAL & OTHER RELATED WORKS | | | | |

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ELECTRICAL WORKS FOR CANARA BANK- Panikheti ATM

| ELECTRICAL WORKS | | | | |
|-------------------------|--|----|-----|--|
| | Note- All wires including Main Line, UPS Line, Cat-6 points should be drawn from the branch and no extra payment for the same shall be entertained in any ways and hence the contractor is advised to read the drawing or visit the site in advance before quoting the rates for the electrical works and the quoted rates shall be inclusive of all as mentioned above | | | |
| 1 | LED panel light- 36 W 2' x 2' PL (Back Lit Armstrong), Century Magic Light make with all accessories in complete. | 1 | Nos | |
| 2 | LED Down lights - RDL Series , 8W , Outer size (116x 36) mm of Century Magic Light make with all accessories in complete.(Including 2 nos in shutter boxing) | 4 | Nos | |
| 3 | Light point wiring with earth using 1.5 sq mm PVC copper Multistrand flexible wire all pulled through concealed PVC conduit with circuit wires | 1 | LS | |
| 4 | 4 nos. 6 Amp one way switch with 4 module concealed backbox and plate for lighting (Anchor / Roma / Crabtree). This includes all the Switches for the light provided inside the Atm on Lumpsum basis and no payment per point wise will be entertained in this regards | 1 | Nos | |
| 5 | Power point wiring with earth using 2.5 sq mm PVC copper Multistrand flexible wire all pulled through concealed PVC conduit inclusive of 5/15 A switch, socket, back box, plate (2 Nos AC , 3 Nos UPS Pt for ATM machine, UPS i/p & o/p point ,Telephone and router,extra 1 nos.) | 1 | LS | |
| 6 | Fascia point Light point wiring with earth using 2.5 sq mm PVC copper Multistrand flexible wire all pulled through concealed PVC conduit with circuit wires | 1 | LS | |
| 7 | Data Point using cat - 5 cables of systemax make data cable pulled through PVC conduits and concealed along with end termination with RJ-45 I/O socket AT&T compatible with back box and plate and 5' long patch chord with both ends crimped. | 2 | Nos | |
| 8 | Extra For Cat-6 Cable above 10Metre length | 50 | Mtr | |
| 9 | S.I.T.C. of 6WAY DB | 1 | Nos | |
| | S & I of 6 Way SPN, Main DB for distribution for ATM, having below mentioned switch gears (Earth bar inside these DB should be insulated from the body) - 25A, 36kA, DP MCB as incomer - 6/16/25/32 A SP MCB as outgoing -4 Nos.(1 for Lighting, 2 Nos for AC & i Extra) | | | |
| | <u>Note- Rates Shall be inclusive of S.I.T.C. of 3X 2.5 Sq.mm. F.R.L.S. copper flexible wires in 19/20 mm. MS conduit from Main D.B To L.D.B</u> | | | |
| B | TOTAL OF ELECTRICAL WORKS | | | |
| | GRAND TOTAL BRANCH & ATM (A + B) | | | |

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