

# **CANARA BANK**

## **INVITATION TO TENDER**

### **ONLY FOR EMPANELLED CONTRACTORS**

#### **OF**

#### **CIRCLE OFFICE KOLKATA**

TENDER FROM ANY OTHER CONTRACTOR WILL BE SUMMARILY REJECTED

**INSTRUCTION TO BIDDERS**

**AND**

**GENERAL CONDITIONS OF CONTRACT**

**FOR**

**ELECTRICAL WORKS**

**AT**

**CANARA BANK – BELDA BRANCH**

TENDER NO.: 133/24-25/AS

**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 premises of BELDA Branch.**

Tender Documents may be obtained at free of cost from the Premises & Estate Section, Circle Office Canara Bank, Kolkata during working hours from **06/01/2025** till **13/01/2025**.

**Earnest Money Deposit : NIL**

**Period of completion : 20 days**

**Last date, time and place for Submission of tender : On or before 3:00 pm, 13/01/2025 to  
The Assistant General Manager,  
Premises & Estate section  
Canara Bank, Circle Office  
Kolkata**

**Time and date of opening of tender : 3.30 pm on 13/01/2025**

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.

**Assistant General Manager  
Premises & Estate Section  
Canara Bank, Circle Office  
Kolkata**

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Date: 06/01/2025

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## **GENERAL RULES & INSTRUCTIONS TO TENDERERS**

### **Name of the work: Electrical Works to be carried out at PREMISES OF BELDA 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.

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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.

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 5% 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 weather 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, electrical 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.**

<b>TIME PERIOD FOR COMPLETION: 20 days from the date of award of work.</b>
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## **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 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.

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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 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 there of 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 breach 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 sour 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 a foresaid 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 a foresaid 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.

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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.

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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<b>SCHEDULE OF WORKS FOR ELECTRICAL WORKS AT BELDA BRANCH</b>					
<b>SL. NO</b>	<b>DESCRIPTION OF ITEMS</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>1. WIRING TO POINTS</b>				
<b>1.0</b>	Concealed conduit wiring to light, ceiling fan, exhaust fan points with (2x1.5 sq mm + 1(1x1sqmm ) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 6 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge.				
	1. Primary ( 1 light/fan controlled by one switch )	Nos.	<b>20</b>		
	2. Secondary point (2 lights controlled by 1 switch)	Nos	<b>18</b>		
	3. Primary point (wall fan/ceiling & Exhaust fan controlled by 1 switch and one 5 Amp. socket )	Nos	<b>13</b>		
	4 .Recess conduit wiring to 6 Amp plug socket with switch on existing board as above.	Nos.	<b>6</b>		
<b>2.0</b>	Concealed conduit wiring to 5/15 Amp plug socket with switch on separate board with (2x1.5 sq mm + 1(1x1sqmm ) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 6 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge at counter/table.	SET	<b>3</b>		
<b>5.0</b>	Concealed conduit wiring to call bell point with one gong bell of 6" dia placed at strategic point with 6 Amp switch bell push clip in type modular type fixed on G.I. boxes placed at skirting level for emergency use, the wiring details are as per Sr .no. - 01. The places as located in drawing & as per direction of Engineer-in-charge.	SET	<b>1</b>		
<b>6.0</b>	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade standard copper wire run inside pre-laid PVC conduit pipe of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
A	Concealed wiring with 2x(1x2.5sqmm) +1x(1x1.5sqmm) copper wire ( LDB to Switch board )	Mts	<b>180</b>		
B	Concealed wiring with 2x (1x4sqmm) + 1x (1x2.5sqmm) copper wire ( PANEL to INVERTER at UPS Room)	Mts	<b>160</b>		
C	Concealed wiring with 2x (1x6sqmm) + 1x (1x4.0sqmm) copper wire ( U.P.S INPUT. )	Mts	<b>45</b>		
D	Concealed wiring with 2x (1x4sqmm) + 1x (1x2.5sqmm) copper wire ( INVERTER TO LDB)	Mts	<b>30</b>		

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<b>7.0</b>	Supplying & fixing of company made & wired with double door arrangement DB of approved make with following arrangement.				
	<b>L.D.B</b>	Set	<b>1</b>		
	12 way SP DB				
	Incoming 1 No. 32A DP MCB				
	Out going 10 No. 6-10 A SP MCB				
	<b>2.COMPUTER WIRING</b>				
<b>1.0</b>	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade standard copper wire run inside pre-laid PVC conduit pipe of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
A	Concealed wiring with 2x(1x2.5sqmm) +1x(1x1.5sqmm) copper wire (CDB to Comput switch board )	Mts	<b>180</b>		
B	Concealed wiring with 2x (1x4sqmm) + 1x (1x2.5sqmm) copper wire ( UPS OUT PUT to CDB )	Mts	<b>160</b>		
<b>2.0</b>	Supplying & fixing of UPS input DB company made & wired with double door arrangement OF APPROVED make) with following arrangement.	SET	<b>1</b>		
	<b>Incoming</b>				
	40 Amp DP MCB – 2 nos (1main & 1 spare).				
<b>3.0</b>	Supplying & fixing of UPS output DB company made & wired with double door arrangement OF APPROVED make) with the following arrangement.	SET	<b>1</b>		
	Outgoing				
	40 Amp DP MCB – 2 nos. (1main & 1 spare).				
<b>4.0</b>	Supplying & fixing of company made & wired with double door arrangement DB of approved make with following arrangement.				
	<b>C.D.B</b>	SET	<b>1</b>		
	12 way SPN DB				
	Incoming 1 No. 32A DP MCB				
	Out going 10 No. 6-10A SP MCB				
<b>5.0</b>	Supplying & fixing of computer terminal boxes made of G.I. fitted with (3 nos. of 6 Amp switches + 3 nos. 6Amp socket + indicator ), all clip in modular type & as per direction of Engineer-in-charge.	SET	<b>6</b>		

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6.0	Providing and fixing of chemical earth electroad made out of 50mm dia class-B Asahalock or equevalent 2m length with copper plate made out of 600x600x3.15 mm tinned copper plate along with one number 40x5mm tinned copper strip grazed with the plate buried vertically with top edge of the plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcole, saltoreign soil, water pouring arrangements brick massionry encloser on top with R.C.C cover complete with labour and material as per direction of Engineer-in-charge	SET	1		
7.0	Supply of all required materials & wiring to clip in modular type 4 No. of 6/16 amp socket points controlled by 1 No of 16 amp switch with indicator complete in all respect including making good to damages caused as per direction of EIC for Hub connection / printer supply .	Nos	6		
8.0	The earth lead by 8sq.mm bare cupper wire in GI pipe to connect from earth electrodes to UPS outgoing earth bus & as per direction of Engineer-in-charge.	Mts	45		
<b>3.A.C POINT WIRING</b>					
1.0	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade standard copper wire run inside pre-laid PVC conduit pipe of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
A	Recessed wiring with 2x (1x4sqmm) + 1x (1x2.5sqmm) copper wire ( PANEL to.LDB/ A.C points)	Mts	180		
2.0	Supply of all required materials and wiring to AC plug point with 2 (1x4sqmm) PVC insulated copper wire run inside screw type PVC conduit pipe with ISI market laid on surfaced/recessed of wall/ceiling alongwith 1 (1x2.5sqmm) PVC insulated copper wire as earth continuity conductor complete in all respect including with use of 1.5 TR AC starter, concealed metal boxes with cover, wire, 20A SPN metalclad plug socket, metalic switch box for plug, junction box etc complete with making good the damages caused as required and as per direction of Engineer in charge.	Nos.	4		
<b>4. GLOW SINAGE BOARD POINT WIRING</b>					

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1.0	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade standard copper wire run inside pre-laid PVC conduit pipe of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
A	Concealed wiring with 2x (1x2.5sqmm) + 1x (1x1.5sqmm) copper wire ( PANEL to.Glow sign board)	Mts	40		
2.0	Supply,installation and testing of timer with contactor ( L&T / Legrand ) make controlling the glowsign board with all accessories complete as required as per direction of Engineer in charge. The system will be apart of the panel board.	Nos.	1		
	<b>5. FITTINGS OF FIXTURES</b>				
1.0	Supply,Installation and testing of recess LED light fittings (36 wt) of square type ( 2'-0"x2'-0") with all accessories complete required as per direction of Engineer in charge.	Nos.	12		
2.0	Supply,Installation and testing of recess LED spot light fittings (12-15 wt) of round type with all accessories complete required as per direction of Engineer in charge.	Nos.	25		
3.0	Supply,Installation and testing of LED single tube lights patty fittings (1x28wt) of surface mounting with all accessories complete required as per direction of Engineer in charge.	Nos	8		
4.0	Supply,installation and testing of small size spot light mirror optics, LED in the wooden ceiling with all accessories complete assembly of Philips as required as per direction of Engineer in charge.	Nos.	6		
5.0	Providing & Fitting of 450 mm sweep Wall fan of approved make .	Nos.	8		
6.0	Providing & Fitting of 1200 mm sweep Ceiling fan of approved make .	Nos.	2		
7.0	Providing & Fitting of 400 mm sweep Exhaust fan of approved make .	Nos.	3		
8.0	Providing and fitting of call bell of approved make .	Nos.	1		
9.0	Providing and fitting of modular fan regulator of approved make .	Nos.	2		
10.0	Supply,installation and testing of Angle Holder with LED Light fittings (1x9wt) of surface mounting with all accessories complete as required as per direction of Engineer in charge.	Nos.	3		
	<b>6. PHONE WIRING .</b>				

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1.0	Supply of all required materials & laying of the following sizes of phone wires of approved make inside the approved size PVC conduit complete in all respect as per instruction of EIC . 2 pairs telephone wires	Mtrs.	80		
2.0	Supply , fixing , testing of phone point with suitable GI boxes with phone , socket complete in all respect as per direction of EIC .	Nos.	4		
<b>7. MAIN PANEL BOARD</b>					
1	Supply, delivery, installation , testing , commissioning , of L&T indoor wall,floor , mounted , type distribution boards made out of 2 mm thk. CR sheet metal duely acid treated premised & painted with 2 coats of enamel paint compartment arrangement for each equipment & bus bar chamber on the top of the panel running horizontal through out its length duly lamp , vermin proof having provision cable by conduit entry , earthling stud as per specification mentioned below duly factory wired confirming to the relevant ISS & as per special condition of contract , making good the damages M.S. Cubical type Panel board should have hinged door at the front. The panel shall be provided with all accessories & following arrangements complete in all respect & direction of EIC (before fabrication of panel board drawing is to be approved by Engineer-in- charge). Incoming- 1No 125 A TPN SDF with HRC switch 125A bus bar 63 A Change over Out going- 8Nos 32 A DP MCB for A.C 1Nos 40 A DP MCB for LDB/PDB 1Nos 63 A FP MCB for UPS 1-500 Amp. Meter with selector switch Volt meter Phase indicator lamp & incuding bayfargation.	Set	1.00		
2.0	Earthling as per I.E. rules with 40mm dia G.I. pipe of 3 mt. Long perforated on all sides with arrangements of light , termination of 600x600x3mm copper plate & 19x3 G.I flat firmly connected to plate with copper nut & bolt , washer etc . The earth pit should be filled with alternate layers of charcoal, salt & soil. The brick masonry chamber is to be covered with CI cover of minimum 300mm x 300mm size with all accessories & as per direction of Engineer-in-charge.	Nos.	1		
3.0	Supplying & fixing Earth lead with 8nos. of GI wire.	Mtrs.	45		

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SCHEDULE OF WORKS FOR ELECTRICAL WORKS AT BELDA ATM					
SL. NO	DESCRIPTION OF ITEMS	UNIT	QTY	RATE	AMOUNT
	<b>POINT WIRING</b>				
1	Supply of all required materials and existing wiring to proposed light points / fan/ exhaust fan/ call bell points with 2 (1x1.5 sq.mm) PVC insulated copper wire run inside 20 mm PVC conduit pipe of 16 SWG or flexible conduit pipe laid on surface of wall / ceiling along with 1 (1 x 1 sq.mm.) PVC insulated copper wire as earth continuity conductor and complete in all respect as specified and making good to the damages caused and complete as per direction of Engineer-in-charge / Consultant.				
(i)	One point controlled by one switch	Nos	2		
(ii)	Group control point	Nos.	2		
2	Supply of all required materials and recessed wiring to 2/3 pin clip-in modular type 5 Amp plug socket points with 2 (1 x 1.5 sq.mm.) PVC insulated 1100/650 V grade stranded single core copper wire run inside 20 mm PVC Conduit (16 S.W.G) pipe laid on surface wall / ceiling along with 1 (1 x 1 sq.mm) PVC insulated copper wire as earth continuity conductor and complete in all respect including 3 pin 5 A sockets, switches, plates, boxes and cover as specified and making good to the damages caused and complete with all respect as per the direction of Engineer-in-charge / Consultant.				
(i)	Separate	Nos.	0		
(ii)	Supply of all required materials and recessed wiring to circuit / sub-mains with following number and sizes of PVC insulated 1100/650 volt grade stranded copper wire run inside 20 mm PVC conduit (16 S.W.G.) pipe laid on surface of wall / ceiling and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
3	Recessed wiring with 2 (1 x 2.5 sqmm) + 1 x (1 x 1.5 sqmm) copper wire from M.D.B. to individual Light switch board.&computer plug board.	Mtrs	80		

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(a)	Recessed wiring with 2 (1 x4sqmm) + 1 x (1 x 2.5 sqmm) copper wire from Main panel To A/C starter .	Mtrs	50		
(b)	Recessed wiring with 4 core 6 sqmm alumunium armrod cable from MDB To ATM DB .	Mtrs	30		
(c)	Supply of all required materials and fixing of 14 - 20 Amp. Starter, Modular box with 16 Amp. Socket for Air-conditioner machine and complete with all respect as per the direction of Engineer-in-charge / Consultant.	Nos	2		
4	Supply of all required materials and recessed wiring to 2 Nos. of 16 Amp Socket & 16 Amp switch for computer including the modular boxes,& indicator clip-in-type plates, switches, screws and complete in all respect making good to the damages caused asseparate board per the direction of Engineer-in-charge / Consultant.	Nos	2		
5	Supply of all required materials and recessed wiring to 2 Nos. of 16 Amp and 2 nos of 5 Amp. Socket for computer including the modular boxes, clip-in-type plates, switches, screws and complete in all respect making good to the damages caused as per the direction of Engineer-in-charge / Consultant. two separate 16amp socket with AC With timer one no	Nos	2		
5a	Distribution Board (TPN DB)				
6	63A DP MCB 1 no as main				
	32 A DP MCB 2 Nos, 10/6 Amps SP MCB- 2 nos	SET	1		
	4 way CDB incoming 32 dpmcb 1no,out going 6amp spmcb 4no.	SET	1		
	UPS input output 15amp socket switch with indicator.	nos	2		
	Earthing				

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	Supply of materials and installation of copper plate earth electrode made out of 600 x 600 x 3.15 mm thick tinned copper plate alongwith one number 40x5mm tinned copper strip brazed with the plate buried vertically with top edge of plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcoal, salt, foreign soil, 20mm dia G.I. pipe for water pouring arrangements, brick masonry enclosure on top with removable cast iron cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.	Nos	1		
7	Supplying of all required materials laying under Ground /wall/floor making and termination and testing of No-8 Copper wire to be inside PVC Conduit pipe complete as per Direction of ENG.	Mtrs	15		
8	<b>FIXING OF FIXTURES :</b>				
	Supply, installation and testing of LED 36 watt of size 2'-0"x2'-0" with all accessories complete assembly of Philips or Havels as required as per direction of Engineer in charge.	Nos.	4		
9.A	Providing, fixing and commissioning of 12 watt LED spot lights of make GE Philips, Wipro, Opelite, Crompton, Clipsal, Bajaj, Thorn or equivalent make	Nos	4		
10	Supply, installation and testing of LED single tube lights patty fittings (1x28wt) of surface mounting with all accessories complete required as per direction of Engineer in charge.	Nos	0		

<b>A</b>	<b>TOTAL EXCLUSIVE OF GST</b>	
<b>B</b>	<b>DISCOUNT IF ANY</b>	
<b>C</b>	<b>TOTAL AFTER DISCOUNT</b>	
<b>D</b>	<b>GST</b>	
<b>E</b>	<b>TOTAL INCLUSIVE OF GST</b>	

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<b>APPROVED MAKE OF MATERIALS</b>			
1	Switch fuse units (HRC)	LEGRAND / SEIMENS / HAVELLS	
2	Timer (TSQ 100)	L & T / HAVELLS	
3	Voltmeter & Ammeter	A. E. / IMP	
4	Voltmeter & Ammeter selector switches	KAYCEE / L & T	
5	Phase indicating lamp	Vaishno / SIEMENS / ROSS controls	
6	Capacitor	CROMPTON / SIEMENS	
7	HRC fuses	GE power / SIEMENS / L & T / SCHNEIDER	
8	Power Cable : XLPE	FINOLEX / POLYCAB/HAVELLS / NICCO	
9	HRC fuse base & carriers.	GE power / SIEMENS / L & T / SCHNEIDER	
10	1.1 KV grade PVC insulated armoured aluminium cable (ISI marked)	GLOSTER / NATIONAL / NICCO / HAVELLS	
11	1.1KV / 600V grade PVC insulated & sheathed / insulated copper wire & flexible cords (ISI marked).	FINOLEX / HAVELLS	
12	RCCB / ELCB / MCCB	LEGRAND / SEIMENS / HAVELLS	
13	Moulded case circuit breaker	LEGRAND / SEIMENS / HAVELLS	
14	RCCB / ELCB	LEGRAND / SEIMENS / HAVELLS	
15	Switch fuse with rewirable fuses. (6A & 32A TPN)	LEGRAND / SEIMENS / HAVELLS	
16	Isolator	LEGRAND / SEIMENS / HAVELLS	
17	Changeover switch (on load type)	LEGRAND / SEIMENS / HAVELLS	
18	MCB distribution board	LEGRAND / SEIMENS / HAVELLS	
19	6/16 Amp modular type switch / flushed type plug socket	Gold Medal / CRABTREE	
20	6/16 Amp modular switch / socket, module plate & mounting M.S. / PVC box.	Gold Medal / CRABTREE	
21	16/25 Amp., 2 module electronic regulator	Gold Medal / CRABTREE	
22	Ceiling rose	KAY / EPP / ANCHOR / JJ	
23	Holder	KAY / EPP / ANCHOR / JJ	
24	Alarm bell	KHERAJ / GETCO	
25	Black enamelled Steel conduits (conforming to IS in all respects)	BEC / SUPREME / AKG	
26	Compression type brass gland	DOWELLS / JOHNSON / COMET	
27	Cable termination socket	DOWELL'S	
28	Light fitting & lamps	PHILLIPS / HAVELLS	
29	Ceiling / Wall Mounted Fan (Metal Blade)	CROMPTON / ORIENT / HAVELL'S	
30	Exhaust fan	CROMPTON / ORIENT / HAVELL'S	
31	Industrial type socket & top	HAVELL'S / CROMPTON / LEGRAND	
32	Telephone wire	FINOLEX / RRK / NATIONAL	
33	Starter	NORTH WEST / CABTREE	
34	All other items not covered above	As per sample approved by Employer/Consultant	

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