

CANARA BANK

INVITATION TO TENDER

ONLY FOR EMPANEL CONTRACTORS FOR

FURNISHING & ELECTRICAL WORKS

(COMPOSITE WORK)

(CATEGORY A , B, C ONLY)

OF

CIRCLE OFFICE KOLKATA

TENDER FROM ANY OTHER CONTRACTOR WILL BE SUMMARILY REJECTED

**INSTRUCTION TO BIDERS AND
GENERAL CONDITIONS OF CONTRACT
FOR
FURNISHING & ELECTRICAL WORKS
AT**

CANARA BANK – RATANPUR BRANCH

TENDER NO.: 71/23-24/SP

NAME OF THE CONTRACTOR:

.....

ADDRESS:

SEAL & SIGNATURE OF TENDERER

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NOTICE INVITING THE TENDER

To,

M/s

Sealed tenders on item rate basis are invited from panel Contractors for **Furnishing & Electrical Works at RATANPUR Branch**

Tender Documents may be obtained at free of cost from the Premises & Estate Section, Circle Office Canara Bank, Kolkata during working hours from **20-06-2023** till **27-07-2023**.

Earnest Money Deposit : NIL

Period of completion : 20 days

**Last date, time and place for Submission of tender : On or before 3 pm, 27-07-2023 to
The Asst. General Manager,
Premises & Estate section
Canara Bank, Circle Office
Kolkata**

Time and date of opening of tender : 11 am on 28-07-2023

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
Kolkata**

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Date: 20-07-2023

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GENERAL RULES & INSTRUCTIONS TO TENDERERS

Name of the work: Furnishing Works to be carried out at RATANPUR 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 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, 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.
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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.

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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

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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 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 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.

The arbitrator shall be deemed to have entered on the reference the data 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.

SEAL & SIGNATURE OF TENDERER

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**

I. SCHEDULE OF QUANTITIES FOR FURNISHING AND ALLIED CIVIL WORKS

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Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	Dismantling of existing False ceiling, Partitions, work stations, column panelling, electrical equipments etc. & stacking the materials in convenient non objectionable place & removing the debris from the site , complete as per direction of the Architect/ Owner / Bank officials as per local municipal rules.	1	L.S.		
2	Providing and fixing double charged 600 x 600 mm vitrified tiles of approved shade (matching with existing tiles) with adhesive. Basic Price - Rs. 600 / Sq.Mt (MAKE : RAK / JOHNSON / KAJARIA)	80	Sq.m		
3	FALSE CEILING (gypsum ceiling) : Providing and fixing 12.5mm thick Gypboard conforming to IS 2095-1982 on metal frame suspended from RCC roof having following sizes: Intermediate channel – 45 x 0.9 x 15mm to be placed at 1220mm c/c Ceiling angle – 25 x 10 x 0.55mm to be hung from the RCC roof with rawl plug and clip to be placed at 1220mm c/c. Ceiling Section – 0.55mm x 51.5mm x 26mm x 10.5mm lipping to be fixed with the intermediate channel with the help of connecting clip placed at 457mm c/c. Jointing and finishing to be done as per manufacturers guidelines. Rate shall inclusive of making cutout for spot, tube light, fans, AC grills, fire and security systems cutouts with framing, and finishing with necessary jointing compound, paper tape, Putty & two coats of Primer and Finished with two coats of Plastic emulsion paint of approved shade.	50	Sq.m		

SEAL & SIGNATURE OF TENDERER

4	<p>GRID TYPE CEILING (Armstrong) : Providing & fixing false ceiling of Armstrong 600 mm x 600 mm x 15 mm Dune Supreme RH 99 Prima tile supported by hot dipped galvanised zinc coated members as follows.</p> <p>Main Runner :- G.I. Channel 0.4 mm thick . Weight 0.369 kgs / mtr @ 1.2 mtrs c/c.</p> <p>Primary cross runner :- G.I. Channel 0.4 mm thick . Weight 0.325 kgs / mtr @ 600 mm c/c.</p> <p>Secondary runner :- G.I. Channel 0.4 mm thick . Weight 0.325 kgs / mtr placed at the centre of the primary runners.</p> <p>G.I. Wall Angles :- 0.35 mm thick weight : 0.23 kgs / mtrs. including masonry work , accessories , screws etc. Making necessary framework for A.C ducting, if any, and necessary cutout for diffusers and light fittings, taping and finishing to proper line & level.(Note:- No extra payment will be made for cutouts, grooves, mouldings etc.)</p>	35	Sq.m		
5	<p>Solid Partition : Providing and fixing partition framing upto ceiling level. Framing shall consist of 50 x 50 mm aluminium hollow section, at 600 mm c/c bothways horizontally and vertically. Above false ceiling, alternate vertical sections to be extended upto main ceiling and to be fixed with MS cleats. Framing to be covered on both sides with 6 mm thick BWP ply (I.S.-710) finished with 1mm thick laminate of approved shade and colour, necessary groove work, beadings, moulding . The item is to be finished complete in all respects with skirting of 6mm thick BWP ply (I.S.-710) finished with 1mm laminate of approved shade & colour. (Tenderer should visit the site and check the actual floor height – Partition to be measured upto false ceiling height excluding door opening for Billing purpose) (Framing to be approved by Bank's officials before completion of skinning of partition.)</p>	25	Sq.m		

SEAL & SIGNATURE OF TENDERER

6	LOW HEIGHT PARTLY GLAZED PARTITION : Providing and fixing partition framing upto total height of 1500 mm. Framing shall consist of 50 x 50 mm aluminium hollow section, at 600mm c/c bothways horizontally and vertically. Framing to be covered on both sides with 6mm thick BWP ply (I.S.-710) finished with 1mm thick laminate upto 1050 mm height, necessary groove work, beadings, moulding and above 900 mm level, glazed by 8mm thick 300mm high glass etched as per approved design upto 450 mm height. The item is to be finished complete in all respects with skirting of 6mm thick BWP ply (I.S.-710) finished with 1mm laminate of approved shade & colour.(Partition to be measured excluding door opening for Billing purpose).(Framing to be approved by Bank's officials before completion of skinning of partition.)	10	Sq.m		
7	FULL HEIGHT PARTLY GLAZED PARTITION : Providing and fixing partition framing upto ceiling level. Framing shall consist of 50 x 50 mm aluminium hollow frame, at 600 c/c bothways horizontally and vertically. Above false ceiling alternate vertical sections to extend upto main ceiling and to be fixed with MS cleats. Framing to be covered on both sides with 6mm thick BWP ply (I.S.-710) finished with 1mm thick laminate, necessary groove work, beadings, moulding. Upto a height of 900 mm from FFL and from 2100 mm upto the false ceiling, the partition should be made solid / fully blocked; from 900 mm to 2100 mm clear glass of 8 mm thickness etched as per direction of the Consultant . The item is to be finished complete in all respects with skirting of 6mm thick BWP ply (I.S.-710) finished with 1mm laminate of approved shade & colour. (Tenderer should visit the site and check the actual floor height – Partition to be measured upto false ceiling height excluding door opening for Billing purpose).(Framing to be approved by Bank's officials before completion of skinning of partition.)	28	Sq.m		
8	FLUSH DOOR : Providing and fixing in position 32 mm solid core flush door / wicket gate finished with 1mm thick laminate as per design on both sides duly polished, t.w. lipping on two vertical and horizontal edges having cylindrical lock, door stopper, brass hinges, etc. Also providing 75 x 62.5mm second class t.w. frame having t.w. lipping	12	Sq.m		

SEAL & SIGNATURE OF TENDERER

	fixed in either surface of the frame duly polished with 3 coats of lacquer melamine and fixed to the partition frame.				
9	TABLE : Providing and placing in position table fabricated out of 19mm thick BWP(IS710) block board on all sides finished with 1 mm thick laminate on top, 1mm thick laminate on the sides and front. The work to be completed by fabricating drawers on one side and leg rest. Inside of the table and drawers should be polished. Drawers have to be provided with locks and handles and exposed surfaces are to be finished with 1mm thick laminate. Table edges are to be finished with t.w. moulding duly polished. There should be a 75 x 12 mm BWP ply skirting with grooves duly melamine polished. Exposed edges of the boards will be finished with t.w. lipping. Rate includes all materials , labour charges, fitting charges,hardware, cable manager, CPU stand, Foot rest etc.Table top to be provided with 12 mm thk clear class wth required cable manager and all edges to be polished and as directed by the engineer incharge.				
a.	BM'S Table (1800 x 900 mm – table top) Decorative laminate finish as per deisgn and direction of Architect/EIC.	1	Nos.		
b.	Front Counter Table 750mm deep with drawer unit . (As per deisgn and direction of Architect/EIC.) Individual counter/table to be provided. Counters should not be supported on any partitions.	2.4	RM		
d.	Officer / Manager Table (1200 x 750) with required drawer units.	2	Nos.		
e.	Cash counter (1500x900) with transaction top 450 (H)x300(D) as per detailed drawing with fixed glazing in front. Cash counter will also have a side unit which will be paid separately as per side unit item. (with drawer units)	3	RM		
f.	Running Table 600mm wide made with 19 mm. ply and 1 mm. laminate fixed in wall with m/s stand and frame for dining in pantry.(No drawers required)	2	RM		
g.	Centre Table (700 x 400) with glass top	2	Nos.		
10	Providing & fixing CPU trolley of Ebco make in the tables.	7	nos.		

SEAL & SIGNATURE OF TENDERER

11	STORAGE UNIT : Providing and placing in position Storage units fabricated out of 19mm thick BWP block board on all sides, backing will be of 6mm thick BWP ply (I.S.-710) , shelves and openable shutters will be of 19mm thick BWP ply (I.S.-710) . Depth of the storage will be 18" and shelves to be provided with 19 mm thk ply finished with innner lamainates. The top, sides, shutter front and back sides (if exposed) to be finished with 1mm thick laminate with necessary grooves and the exposed edges of block board should be finished with 6mm lipping. Inside of the unit will be painted/ finished with inner laminates in matching tone. Unit should be provided with openable/sliding shutters, locks, hinges, handles, ball catchers and tower bolt fixed. (Only front area to be measured for payment.)	20	Sq.m		
12	SIDE & BACK UNIT: Providing and placing in position side and back units fabricated out of 19mm thick BWP block board on all sides, backing and will be of 6mm thick BWP ply (I.S.-710), shelves. Openable Shutters will be of 12mm thick BWP ply (I.S.-710). The top, sides, shutter front and back sides (if exposed) to be finished with 1mm thick laminate with necessary grooves and the exposed edges of block board should be finished with 6mm t.w. lipping. Inside of the unit will be polished in matching tone. Unit should be provided with openable shutters, locks, hinges, handles, ball catchers and tower bolt fixed. all other details same as per Storage Unit Item as above. (Only front area to be measured for payment.)	4	Sq.m		
13	Providing & Fixing toughened glass (12mm thk.) door with with pencil polish edges all around as per design fixed with nasesory patch fittings assembly including top and bottom patches, heavy duty floor spring, bottom lock, SS brushed finished 600mm long and 50mm dia. handle on both sides of shutter etc. all complete as directed by Bank. (1 Nos. Doors)	5	Sq.m		
14	Providing & fixing Wall Paneling with 6 mm Marine ply (I.S.-710) and 1mm thick laminate of approved shade and colour on 25 x 25 Sal wood framing at 450 mm c/c bothways.	20	Sq.m		
15	Providing & fixing Frosted film of (LLUMER OR 3M MAKE) on glazed surfaces as per design and direction .	8	Sq.m		

SEAL & SIGNATURE OF TENDERER

16	Supply & fixing of 8 mm Toughened Glass as separators between tables / workstations with D type holder / wall fixing profile of Hettich / Hafel / Dorma.	10	Sq.m		
17	FOOTRUGS (750 x 450) : Providing and laying synthetic door mats of approved shade from Birla 3M.	1	Sq.m		
18	PIN-UP BOARDS : Supplying and fixing pin-up boards fabricated out of 12mm BWP ply covered with 12mm soft board padding and upholstered with poly propylene fabric @ Rs. 150/- per meter edges of soft board should have t.w. moulding duly spirit polished.	3	Sq.m		
19	ROLLER BLIND : Providing and fixing Translucent Roller Blind to cover window of approved brand/make, shade & quality with all accessories including adjuster hardware, labour & materials complete with all in all floors.	10	Sq.m		
20	PAINTING : Providing and applying 2 coats of plastic emulsion paint over 1 coat of primer of approved shade and colour on walls, columns and ceiling. The job is inclusive of scraping, leveling and preparing the surface, applying primer, etc. (Make : Asian Paints / Berger)	300	Sq.m		
21	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand (1.5mm thick)	50	Sq.m		
22	ENAMEL PAINTING : Providing and applying 2 coats of enamel paint over 1 coat of primer of approved shade on steel/wooden surface at any level including scaffolding as per direction of the Architect. The job is inclusive of scraping, leveling and preparing the surface, applying primer, etc. (Make : Asian Paints / Berger)	40	Sq.m		
	Gross Total (A)				

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I. SCHEDULE OF QUANTITIES FOR ELECTRICAL WORKS

Sl. No.	Item Description	Qty.	Unit	Rate per Unit in Rs.	Amount in Rs.
1.	Main Switch : Providing & fixing of C type 4 P 63A MCB within box as per manufacturer's specification in wall concealed. Including connection from Generator	2	No.		
2	Earth Busbar (For Computer System) : Providing & Fixing earth busbar of 25 x 3 mm copper strip for connection to UPS and earth station	2	No.		
3	EARTH BUSBAR : Providing and fixing earth busbar of 50mm x 6mm G.I. strip on surface for connections etc. as required.	2	No.		
4	G. I. EARTH PIPE ELECTRODE : Earthing with G. I. earth pipe 4.5 M long x40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt at alternate layer as required complete as required.	2	Sets		
5	Earthing station : 600x600x3mm copper plate earthing station with earthing resistance less than 2 ohms including watering PVC/GI pipe with funnel ,excavation till 7'0" or as instructed by site-in charge, backfilling with compaction ,1no 25x3mm copper flats connected to the copper plate till the existing ground level, copper nuts & bolts, salt, and coal filling in layers 10"x10" masonry chamber with sand plaster ,RCC, or cast iron lid ,inclusive of 5mtr conduiting of earthing of copper 10 SWG in Black Enameled MS conduit to start from the ground level, complete as directed in site manual.	2	No.		
6	Supplying and laying G.I. earth strip 25x3 at surface for connection to equipment & at 0.5 M below ground for connection from earth electrode to earth busbar including soldering etc. as required.	40	RM		
7	CU Earth Wire : Providing & Fixing of 2nos 16sq.m. PVC insulated copper Wire from earth busbar to UPS & from earth busbar to earth station. (Make : - Skyline, Finolex, Havells, Polycab.)	40	RM		
8.	4 C Copper cable : Providing & Laying 4 C 25 sq.mm Aluminium cable along with 2nos 7/10 SWG GI wire as earth continuity wire.	50	RM		
9.	Cable Termination : End connection of the above 4 core 25 sq.mm cable by double compression type brass cable gland crimping type sockets, tapes etc	4	Set		

SEAL & SIGNATURE OF TENDERER

10	SPN DB FOR LIGHTING & COMPUTER : MCB-Distribution Board - Supplying and installation of 415/250V miniature circuit breaker distribution board in 16SWG sheet steel enclosure, with double door, internally wired, neutral end earth busbar, and each comprising of following MCBs having short circuit level 10KA & 'C' curve characteristic. Each MCB Distribution board shall comprise of following and including blank plates, inscription marking, phase neutral and earth bars, mounted on M.S. Frame on wall including cutting wall and mending good damages. Incoming - 1 No. 63A TPN MCB Outgoing – 12Nos. 10A/16A/25A/32A SP MCB	1	No.		
11	Point Wiring (Concealed Type) – Point Wiring (Concealed Type) –a)Supply & Fixing Point Wiring (Concealed Type) including circuit (3x1.5 sq mm) FRLS 1.1kV grade unsheathed stranded Copper Wire from DB to Switchboard & Switch Board to Switch Board & Point Wiring from switchboard to individual light, ceiling fan ,exhaust fan, wall bracket fan, call bell etc & 6A Plug Socket with 3X 1.5 Sq.mm Single Core 1100V grade unsheathed stranded copper wire in concealed 20mm dia PVC Conduit Pipe partly laid over false ceiling & partly concealing of 20mm dia PVC Pipe in Brick wall / floor / wooden partition / furniture including 16SWG thick MS Junction Box, CI Circular Boxes with 3mm thick Hylam Cover ,brass screws and washers painting of JB, cutting of brick wall & mending good damages. The rate should include supplying and laying of all materials like PVC conduit, inspection boxes, modular Switch Box, 6A Plate Type modular Switch, Socket, Brass screws and any other materials to complete the wiring, making connection and testing etc, painting and mending good all the damages.				
a.	LED Light Points. (from lighting DB)	24	No		
b	same as above - 2 points controlled by one switch	13	NO		
c	same as above - 3 points controlled by one switch	7	NO		
d	Wall / Ceiling /Exhaust fan points - do -	12	No.		
e	6A 5pin plug switch socket on same board. - do -	10	No		
f	6A 5pin plug switch socket on separate board. - do -	8	No		
g	Call bell point with S & F bell push. - do -	1	No		
h	6A 5 pin plug with switch on separate board (from UPS)	5	points		

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12	Providing & Fixing of 16A Switch modular type , 16/6A Socket shutter type concealed MS Switch Box , Cover etc. for raw power with 1100V grade single core 2X4 Sq.mm + 1X2.5 Sq.mm unsheathed stranded FRLS Copper Conductor in concealed 20mm dia PVC Pipe partly laid over false ceiling & partly concealing of 20mm dia PVC Pipe in Brick wall / floor / wooden partition / furniture including making good damages .	5	No		
13	Supply and fixing 20/25 A SP MCB for Split AC and necessary Wiring as required. Rate includes Power point Wiring for A/C by supplying , fixing & laying Power point concealed with 1100V grade single core 2X4 Sq.mm. +1X2.5Sq.mm. unsheathed stranded FRLS Copper Conductor in 20 mm dia PVC conduit partly laid over false ceiling and partly concealed in brick wall/floor including making good damages . The rate should include supply and laying of all materials like PVC conduit Pipe inspection boxes etc. and any other materials to complete the wiring, making connection from DB and to power unit & testing , etc. painting and mending good to damages.	4	Nos		
14	Lighting & fan (Material & Labour) :				
a	Supply & fixing of recessed mounted 2x2' LED luminaire (2800Lu) Full glow Philips 30W Cat No. RC 370 LED 28S-6500 L60W60PSU00 with lamps designed Gypsum type / Armstrong ceiling. The price includes supply of lamps also.	15	Nos		
b	Supply & fixing of recessed mounted round spot LED luminaire 15W make Philips Green LED with lamps designed Gypsum type / Armstrong ceiling. The price includes supply of lamps also.	25	Nos		
c	Tube lights Fittings & lamps, Ballast etc for surface mounting Providing & Fixing surface mounting Luminaire designed LED tube lights Philips Cat No.TMC 501 P 1XT-LED 28W P3241	7	No		
d	Wall hanging Fan : Providing & Fixing of wall fan 400 mm metallic blade sweep complete with regulator, etc., including interconnecting wiring. (Make: Crompton, Havells,Oreint)	8	No		
e	Exhaust Fan : Providing & Fixing 1400 RPM Exhaust Fan Heavy Duty 300mm dia complete with mounting ring, louver, covers, etc including interconnection wiring, making hole on wall and making good the damages .	3	Nos.		
15	Call bell : Providing & Fixing call bell/buzzer on suitable board on wall.	1	No		
	COMPUTER				

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16	Wiring from DB to UPS & from UPS to UPS DB : Providing & laying of 2 x 6+1 x 2.5 sqmm. 1100V grade PVC insulated copper wire, FRLS, (Make- Finolex/Havells) in concealed 25mm dia PVC conduit (ISI Mark) with all accessories like saddles, hooks, bends, inspection boxes etc including supply & fixing of PVC conduit over false ceiling / in slab / beam / ceiling / on wall from DB to UPS & from UPS to UPS DB.	30	RM		
17	Industrial Type Plug & Socket for UPS output : Providing & Fixing on wall in concealed 16 SWG MS box with wall matching hylam cover 1no 32 A 3 pin Industrial Socket with matching plug top3 pin neutral & earth type and 1no 32A DP MCB make including necessary interconnection.	4	No		
18	UPS DB : Supply & Fixing of UPS MCBSPN Distribution Board in 16SWG sheet steel enclosure, with double door, internally wired, neutral end earth busbar, and each comprising of following MCBs having short circuit level 10KA. Each MCB Distribution board shall comprise of following and including blank plates, inscription marking, phase neutral and earth bars, mounted on M.S. Frame on wall including cutting wall and mending good damages Incoming 1 No. 25A SPN MCB. Outgoing 8 Nos. 10A/16A SP MCB	1	No		
19	Work Station : Supply & installation of Work station comprising 1 no 16A MODULAR switch above the table , 3 nos 6A 5 pin MODULAR socket below the table outlet for UPS circuit on MODULAR switch board flush mounted on wall/wooden panel/furniture. Rate shall include wiring from Wiring from UPSDB to WORK STATION by providing & laying 2x4+1x2.5sqmm 1100V grade PVC insulated copper wire, FRLS, (Make- Finolex/Havells/Polycab) in concealed 20mm dia PVC conduit (ISI Mark) with all accessories like saddles, hooks, bends, inspection boxes etc including supply & fixing of PVC conduit over false ceiling/in slab/beam/ceiling/on wall/in floor/wooden partition/furniture from UPS DB to work station.	10	Set		
20	Supply & laying of 2 pair telephone cable throughrout / 19mm conduct pipe	100	RM		
21	Supply & fixing telephone socket outlet RJ 11 type make MK	8	Nos		
	(B)	TOTAL			

Sl. No.	Description	Amount Quoted
1	Furnishing Work (A)	
2	Electrical Work(B)	
3	Net Total (A+B)	
4	Discount if any	
5	Net Total After Discount	
6	GST	
7	Total inclusive of GST	

Note: Lowest Bidder will be the lowest of Sl No. 5 i.e. Net Total After Discount

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APPROVED MAKE OF MATERIALS		
1	False Ceiling / Channels	India Gypsum / Armstrong / Saint Gobain
2	Wood Frame Work / Wood Section : All Wood, Must be well seasoned, free from knots, other defects decay and defects due to handling and Transportation. Wherever necessary, provide with anti – termite Treatment.	Malaysian Sal / Kapoor
3	Wood Skirting / Moulding / Lipping / Bidding	White Beach / White Ceader / CP Teak
4	Wood Preservative	STP Pentaphene Pale / Termiseal by PCI / Bison by British Paint
5	Fire Reterdant Paint	Industrial grads of Noble / Viper
6	BWR Ply (IS : 710)	Century / Green/ Sylvan/Austin/Archid/Kitply
7	Flush Door / BWP Block board (IS : 1659)	Century / Green / Sylvan / Kitply /Austin/Archid
8	Laminate (1.0 mm thk.) (IS : 2046)	Green lam / Century mica / Airolam/AICA/ Archidlam
9	Door Closure (Heavy Duty)	Godrej / Archi / Sterling (DC 2000)
10	Floor Spring (Heavy Duty)	Godrej / Archi / Sterling (FS 3000)
11	Door Lock (Dead)	Godrej / Hafele /Hettich / Kich / Doorset / Yale
12	Door Handles	Godrej / Hafele /Hettich / Kich / Doorset
13	Drawer / Storage Handle	Godrej / Hafele /Hettich / Kich / Doorset
14	Drawer / Storage Lock (Multipurpose)	Ebco / Hafele /Hettich /Doorset
15	Night latch	Godrej / 4C Acme
16	Screws	GKW / Nettle fold
17	Hinges	CIEF
18	Sliding Telescopic Drawer Channel	Ebco / Earl Behari / Efficient Gadjets
19	Cable Organizer	Ebco / Innofitt Systems (CM 63.C)
20	Adhesive	Fevicol SH / Fevimate TL
21	Soft Board	Jolly Board
22	Vertical Blinds	Mac / Annums / Window Fashion
23	Glass	Modi /AIS / Saint Gobain
24	Paints (Synthetic Enamel / Acrylic Emulsion)	Asain Paints / Berger / ICI
25	PVC Flooring	Krishna Vinyl / Armstrong / Birla
26	Texture Paint	Spectrum
27	Glass	Modi / AIS / Saint Gobain
28	European WC / Washbasin	Hindware /Parryware
29	Sanitary Fittings	Jaquar / Essco Delux
30	G.I. Pipe	Tata (Medium)
31	Cement	Ultratech / Laferge / ACC
32	Footmat	Birla 3M / Approved Equivalent
33	Vitrified Tiles	Johnson / Kajaria
34	Ceramic Tiles	Johnson / Kajaria
35	All other items not covered above	As per sample approved by Employer/Consultant

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APPROVED MAKE OF MATERIALS		
1	Switch fuse units (HRC)	LEGRAND / INDO-ASIAN / 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	GLOSTER/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 / INDO-ASIAN / HAVELLS
13	Moulded case circuit breaker	LEGRAND / INDO-ASIAN / HAVELLS
14	RCCB / ELCB	LEGRAND / INDO-ASIAN / HAVELLS
15	Switch fuse with rewirable fuses. (6A & 32A TPN)	LEGRAND / INDO-ASIAN / HAVELLS
16	Isolator	LEGRAND / INDO-ASIAN / HAVELLS
17	Changeover switch (on load type)	LEGRAND / INDO-ASIAN / HAVELLS
18	MCB distribution board	LEGRAND / INDO-ASIAN / HAVELLS
19	6/16 Amp modular type switch / flushed type plug socket	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
20	6/16 Amp modular switch / socket, module plate & mounting M.S. / PVC box.	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
21	16/25 Amp., 2 module electronic regulator	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
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	CROMPTON / KHAITAN / HAVELL'S
30	Exhaust fan	CROMPTON / KHAITAN / HAVELL'S
31	Industrial type socket & top	HAVELL'S / CROMPTON / LEGRAND
32	Telephone wire	FINOLEX / RRK/NATIONAL
33	Starters	NORTH WEST / CABTREE
34	All other items not covered above	As per sample approved by Employer/Consultant

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