

JAMIA HAMDARD

HAMDARD NAGAR, NEW DELHI - 110062

Telephone: 011-26059688-5374

TENDER DOCUMENT

FOR

Electrical work of panel, cabling etc. at Scholars' House

Submitted by:

Name of the agency:

Address:

Contact No:

Email ID:

JAMIA HAMDARD
(DEEMED TO BE UNIVERSITY)
HAMDARD NAGAR, NEW DELHI-110062

NOTICE INVITING QUOTATIONS

15.10.2024

Jamia Hamdard, New Delhi invites sealed items rates Tenders in **Single bid system** from reputed contractors registered with Govt. Semi Govt., reputed organization, PSU or worked/working in Jamia Hamdard for the below mentioned work. Tender Documents are attached herewith. Last date of submission of the Tender is 01.11.2024 up to **3:00 PM**. The bidders are also advised to visit the site to satisfy themselves before submitting the Bids. Bidders not fulfilling the Eligibility Criteria will be rejected. Eligibility Criteria is mentioned at Tender clause 2.

NAME OF WORK	Electrical work of panel, cabling etc. at Scholars' House
ESTIMATED COST	Rs.3.0 lacs
EARNEST MONEY	Rs. 6000.00 Demand Draft in favour of "Jamia Hamdard" New Delhi
TENDER COST	Rs.500/- Demand Draft in favour of "Jamia Hamdard" New Delhi
TIME PERIOD	15 days from the 2nd day of the receipt of the work order.

The Tender duly filled should be dropped in the Tender Box kept in Purchase Section, Admin Block on or before 01.11.2024 **up to 3:00 PM** along with demand draft of earnest money & Tender fee in sealed envelope clearly specifying the name of work. The DDs shall be in favor of Jamia Hamdard payable at New Delhi. The bids shall be opened on 01.11.2024 **at 3:30 PM** by the tender committee in presence of available interested parties. Jamia Hamdard reserves the right to reject any or all tenders without assigning any reason. Decision of Jamia Hamdard in this regard will be the final and binding on all applicants.

Registrar

1. SCOPE OF WORK

Electrical work of SITC of LT panel, DB, MCBs and supply and laying of the cables etc. the porta structure and proposed Airconditioning system at Scholar Hose Jamia Hamdard Campus as per BOQ (Annexure 'A') / requirement of site etc.

2. ELIGIBILITY CRITERIA

- 2.1 Bidders must have worked/working with Govt., Semi Govt., reputed organization, PSU for such works. Bidders have to submit the related copies of the documents justifying the eligibility criteria along with his Tender. The original will have to be produced when demanded for verification.
- 2.2 Contractors should have executed similar nature of works of at least one contract of Rs.2.40 Lacs or two contracts of similar nature of works of Rs 1.80 Lacs or three contracts of similar natures of works Rs. 1.20 Lacs in the last 5 years in any institutional Buildings, Universities and produce credentials in support thereof.
- 2.3 Certified documents of having successfully completed similar works during the last 5 years as on 30.09.2024 should also be attached.
- 2.4 The Bidders must have GST, PAN, etc.

3. SUBMISSION OF BIDS

Sealed quotations should be submitted in sealed envelopes, super-scribing NIQ & Name of work, due date for opening, bidder's name & address. The sealed tender duly filled should be dropped in the tender box kept in the Central Purchase Section. It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified above. Any clarifications/amendments/corrigendum etc., to NIQ before last date of submission of bid will only be available on our website: www.jamiahamdard.edu. Therefore, bidders are advised to keep visiting our website.

Note: The bidder shall submit the following:

- a. Covering letter on Company's Letter head
- b. Tender Fee
- c. Earnest Money Deposit.
- d. Copies of GST, PAN, etc.
- e. Entire NIT and documents duly signed & stamped by the bidder/authorized representative.
- f. BOQ cited on **Annexure 'A'**
- g. Bidders are required to quote his item rates in the above said attached BOQ in accordance with the scope of works, terms & conditions & technical specifications enclosed. The rates/price quoted by contractor should be all inclusive i.e. should include all material cost, labour, services, plant/machinery/tools & tackles, ladders & scaffolding required for work, freight, Insurance, Octroi, Govt. duties & levies, GST, Service Tax, Sales Tax etc.), transport/cartage of materials/labour and all other expenses not specifically mentioned but reasonably implied. It is mandatory for bidders to quote all items' rate as asked in the BOQ/ Price schedule. Failure in not filling some item rates will lead to rejection of tender. **The bidders should quote unconditional rates, typed and all pages should be duly signed & stamped.**
- h. **Bidder not complying the bid & eligibility criteria is liable to be rejected.**

4. Terms and Conditions

- I. **Earnest Money & Tender Fee:** An earnest money of Rs. 6000.00 & Tender Fee of Rs. 500.00 for the above Electrical works has to be enclosed along with the Tender. The EMD & Tender fee shall only be in the form of Bank Draft in favour of “Jamia Hamdard” payable at “New Delhi”. No Cheques/Cash shall be accepted as EMD & Tender fee. The EMD of the successful lowest bidder (L-1) shall be held back and will be released after completion of the works and site clearance.
- II. **Validity of Tender:** Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of 90 days from the date of opening of price bid.
- III. **Escalation:** No escalation over and above items rates quoted by the bidder shall be paid during the execution of contract.
- IV. **Completion time:** The time shall be the essence of this contract and entire work as titled above is to be completed in all respects within a period of 15 days from the 2nd day of the receipt of the work order. Any delay in completing of work for the reasons attributable to the Contractor is liable for liquidated damages as per clause 4, “XIII” of General Terms & Conditions. Under the force-majeure conditions or delay due to reasons beyond control of the contractor, Jamia Hamdard may grant suitable time extension without penalty for which the contractor has to request along with the justification/ reasons well in advance to Jamia Hamdard for approval without any prejudice to price escalation. No time extension request shall be considered after the expiry of completion period/contract. The decision of the Executive Engineer regarding Time extension will be final and binding on the contractor.
- V. Item basic rates and GST should be written separately. The total amount should be inclusive of all taxes (Service Tax, GST etc.) duties and cartage etc. All applicable taxes will be deducted as per prevailing Govt. norms and Jamia Hamdard Employee Relief Fund (JHERF) will be deducted @ 0.25% of the amount of total bill claimed.
- VI. **Deviations:** No deviation from the stipulated terms and conditions will be allowed. Tender will be unconditional.
- VII. **Site Conditions:** Contractor shall acquaint himself fully with the site conditions and the working environment of Jamia Hamdard before quoting his rates. No Compensation on account of any site difficulties will be entertained, at a later date, after award of the work.
Before tendering, the Contractor shall visit and examine the site and satisfy himself as to the site conditions, the correct dimensions of the work and facilities. In case of any doubt, it may be clarified from the office of the Assistant Engineer (Electrical).
- VIII. **Correspondence:** All the correspondence in respect of tender/award of work shall be made to Executive Engineer.
- IX. **Terms of Payment:** The payment shall be made on submission of the bills in proper format by the contractor after due certification by the engineer responsible for supervision of the work. Full and final payment will be made after completion of work for claiming payment based on actual quantities of items of work executed as per BOQ and Engineer’s instructions. The payment will generally be made within 30 days from the submission of bills. However, no interest is liable to be paid by Jamia Hamdard in case of delays, if any, in payment.
- X. **Security Deposit:** A security deposit equal to 05% of the value of work will be deducted from Contractor’s bill and shall be refunded after the completion of defect liability period of six months after ensuring successful performance of the system executed by the contractor.
- XI. **Labour Laws:** The contractor will abide by all the rules and regulations related to labour laws, accident, workmen compensation act, workmen insurance etc. This will be the sole responsibility of the contractor. Jamia Hamdard will not be a party at any stage in any of the disputes relating to the above. In case, Jamia Hamdard has to bear any expenditure due to non-conformance of the above provisions by the contractor, the same will be recovered from contractor’s bills.

- XII. Rules governing the Contractor's employees working in the Jamia Hamdard Premises: The contractor's employees working inside the Jamia Hamdard campus will abide by the Centre's rules & regulations for works inside the campus. Any damage to the Jamia Hamdard property due to mishandling, carelessness on the contractor's or his workmen's part will be recoverable from the contractor's bills.
- XIII. **Liquidated damages:** : In case the work is delayed beyond the specified completion period for reasons attributable to the contractor and without any genuine reason, deductions on account of Liquidated damages @0.5 % of the contract value per week will be deducted subject to a maximum of 5% of the contract value. However, during the delayed period, Jamia Hamdard also reserves the right to get some portion of work done by any other contractor at the risk and cost of the existing contractor and amount to that effect along with 10% overhead charges will be deductible from his bills/dues
- XIV. **Extra or substituted item:** If any extra or substituted item appears in the work, contractor shall submit its rate analysis supported with documents which shall be approved by concerned Engineering Department. Analysis of rates will be based on DSR-2022 document of CPWD or based on market rates for determining item rate and pay to contractor accordingly.
- XV. **Defect & Liability period:** Defect liability period shall be six months from the actual date of completion of work. Any defect arising in this period due to contractor's fault will be rectified by him at his own cost. Failure to do so, shall lead to forfeiture of security deposit.
- XVI. Contractor should depute a qualified supervisor dedicated for this work, who will monitor and coordinate the works from contractor's side and interact with the Jamia Hamdard Engineers, responsible for supervision of work, on regular basis.
- XVII. Contractor will take due permission for entry of all his workmen in Jamia Hamdard. No unauthorized person will be allowed to work inside.
- XVIII. The contractor will arrange all necessary materials, tools, equipment, access ladders & scaffolding, measuring instruments and working consumables etc. needed for execution of the works. Safe custody of all such material will be contractor's sole responsibility. No extra charges will be paid for the same. Watch and ward of all material till the system is taken over by Jamia Hamdard shall be the sole responsibility of the contractor and pilferage etc. shall be entirely to his account.
- XIX. During execution of work, Engineer can make minor changes in the scope of work as per site conditions or other reasons. Contractor will have no extra claim in his rates for the same.
- XX. If during the execution of works, any damage is caused to Jamia Hamdard property by contractor's/contractors' workers, contractor will duly make good the loss. Jamia Hamdard has the right to make suitable deduction from contractor's bills along with penalty, if contractor fails to make good the loss.
- XXI. During execution of work, the contractor should follow all the standard norms of safety measures/precautions as per relevant IS codes and CPWD specifications to avoid accidents/damages to man, machines and buildings, at his own cost. Contractor will have his own arrangement to escort the labour to the nearest hospital for treatment in case any injury happens to any worker during execution of work.
- XXII. Manpower deployed by the contractor at our site for carrying out contract works is strictly prohibited being associated with any other works on the campus.
- XXIII. During execution of the work, contractor should dispose off waste material on regular basis and should keep the area of work properly cordoned off and neat and clean as far as possible. After completion of work, contractor should clear the site completely of all unwanted and junk material before submitting his final bill.
- XXIV. Jamia Hamdard will provide electricity, if needed. The electrical energy meter will be provided by the contractor and necessary deduction will be made as per the actual

- consumption of electricity (at the rates paid by JH to BSES) during execution of work. The contractor has to make his own arrangements for water.
- XXV. Tender once submitted will remain with the Jamia Hamdard and will not be returned to the bidders.
- XXVI. Termination of Contract: The Jamia Hamdard reserve the right to terminate the contract on account of poor workmanship, failure to mobilize site within 15 days, non-compliance of specifications for the works, abnormal delay in progress of work, violation of any contract provisions by the contractor. In such case, contractor's EMD and security deposit deducted so far will be forfeited.
- XXVII. Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi/Delhi.
- XXVIII. Tenders not complying with any of the provisions stated in this tender document are liable to be rejected. Jamia Hamdard also reserves the right to accept or reject any or all the tenders without assigning any reason and does not bind himself to accept the lowest tender.
- XXIX. That in the event of any difference, or dispute arising between the parties to this Agreement for any reasons whatsoever relating to the contract, whether during the substance of this Agreement or their after, it has specifically been agreed that the party will endeavor to amicably resolve the difference, but in case if dispute or differences still remain unresolved, the same shall be referred to the sole Arbitrator appointed by the Vice Chancellor of Jamia Hamdard and the Arbitrator decision shall be final and binding upon the parties concerned.

5. SPECIAL TERMS AND CONDITIONS

- I. Makes of Items to be used by contractor should be according to the list of approved makes given at Annexure 'B'. No other makes will be used by the contractor.
- II. Contractor will first submit the sample of relevant make to Executive Engineer/A.E. Electrical for approval before procuring the material.
- III. Contractor will arrange proper necessary materials at his own cost and will take all safety measures like safety belts, extra labour to hold ladders etc. If it is observed that work is proceeding without adequate safety precautions, work may be stopped by Engineer in-charge and in such cases, contractor will be solely responsible for delay and its consequences thereof.

6. CHECK LIST

TO BE SUBMITTED ALONG WITH BID

The tenderer are requested to ensure the submission of the essential documents to avoid disqualification of the bid. However, the check list is not exhaustive and the tenderer are requested to go through to NIT & related documents carefully and completely for fulfillments of tenderer requirement.

S. No.	Enclosures	Submitted
1.	Cost of tender document	
2.	EMD	
3.	Similar works order and other documents asked	
4.	Signature with stamp in all pages of tender documents.	
5.	Bank account detail	
6.	E-mail address	
7.	Address for communication	
8.	Phone no, Mobile no, Landline no.	

Signature of the Tenderer's with stamp

Annexure –A

Price Bid for Electrical work of SITC of LT panel, DB, MCBs and supply and laying of the cables etc. the porta structure and proposed Airconditioning system at Scholar Hose Jamia Hamdard Campus

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	EARTHING				
1	Supply and Erection of GI Chemical Earthing with 50mm diameter 3000 mm with PVC chamber complete in all respect.	Set	1.00		
2	Supplying and Laying of 25 mm X 3 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection / terminating with nut, bolt, spring, washer etc. as required.(jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Meter	10.00		
3	Supply and installing of following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, jointed with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required				
a	100 mm width x 50 mm depth x 1.6 mm thickness	Metre	15.00		
	LAYING AND TERMINATION OF CABLE :				
4	Supplying & making end termination with brass compression gland and aluminium lugs for the following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a	4 X 16 sq. mm (28mm)	Each	4.00		
b	3½ X 25 sq. mm (28mm)	Each	2.00		
c	3½ X 35 sq. mm (32mm)	Each	2.00		
d	3½ X 95 sq. mm (45mm)	Each	2.00		
5	Supply of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size.				
a	4 X 16 sq. mm	Metre	60.00		
b	3½ X 25 sq. mm	Meter	30.00		
c	3½ X 35 sq. mm	Meter	70.00		
d	3½ X 95 sq. mm	Meter	60.00		
6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
a	Above 35 sq. mm and upto 95 sq. mm	metre	55.00		
7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a	Upto 35 sq. mm	meter	150		

8	Supply Installation testing & commissioning of 63A 4 Pole TPN, MCB/RCCB/ELCB with Box and with IP-69 protection etc. complete in all respect	nos.	4		
9.0	Moling under the road crossing pathway with 150mm bore along with laying of 100mm dia PVC heavy duty Pipe for crossing the LT cable Size 3.5 X 95 Sqmm complete in all respect.	Meter	10		
LT PANELS					
10.0	Supply, installation, testing and commissioning of indoor/outdoor floor mounted/ wall mounted, IP43/IP55, factory built, modular, sectionalised, compartmentalized, extendable type LT cubicle panel of suitable size suitable for operation on 433/415 volts, 50 Hz AC 3 phase 4 wire supply system fabricated from CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates with stiffeners wherever required, having vibration free structure chemically treated with seven tank process or better before painting for surface treatment and powder coated in approved shade, with suitable electrolytic grade high conductivity bus bars extensible, DMC/ SMC (whichever is superior) bus bar supports, with short circuit withstand capacity as mentioned ,bottom base channel of section not less than 100mmX 50mmX 5 mm thick, fabrication shall be done in transportable sections, entire panel shall have a common earth bar of required size at the rear with 2 Nos. earth stud, connections and interconnection with solid conductor wires / copper strips, neutral links, control wiring with 1.5 sqmm. & 2.5sqmm. PVC insulated FRLS copper conductor S/C cable for voltage & current respectively, including providing and fixing following switch gears and as per schedules ,technical specifications etc. Complete as required.				
a	The Switchboards shall have provision to accommodate all cables from the bottom /top as required.				
b	All live accessible parts shall be shrouded with 1mm thick polycarbonate/3 mm thick FRP sheet and all equipment shall be finger touch proof. The bus bar insulation shall be with heat shrinkable sleeves according to the colour code. SMC shrouds and bus bar supports shall be used. All MCCB door handle shall be interlocked and lockable in OFF position.				
c	Galvanised hardware with zinc passivation shall be used in fabrication of Switchboards.				
d	Suitable Aluminium earth bus to be provided throughout the length of Switchboards.				
e	All indication lamps / illuminated push buttons shall be LED type.				
f	2A SP MCBs shall be used as backup protections.				
g	All MCCBs shall be provided at least with ON, OFF & Trip indication lamps.				
h	All MCCBs shall be with thermal magnetic releases up to 200 A rating and with microprocessor based releases above 200 A rating, line load reversibility, Ics = 100% Icu,& extended rotary handle unless otherwise specified				
i	All MCCB shall have rotary handle with pad locking arrangement.				

j	All microprocessor based MCCBs shall have inbuilt earth fault protection and all thermal magnetic based MCCBs shall be provided earth fault protection through E/F module.				
k	Door interlocking for all outgoing feeders shall be provided.				
l	All TP MCCB'S shall have solid neutral link, disconnect type.				
m	All control & power wiring shall be brought out upto the cable alley in the terminal blocks.				
n	All ACBs shall be with microprocessor based releases (O/C, S/C, E/F & Instantaneous). All ACBs shall have ZSI protection & trip history.				
o	All outgoing terminals shall be provided in cable alley on proper insulated supports (SMC/DMC).				
p	All rear door of Main Isolation Panel shall be Almirah type with lockable arrangement.				
q	Space heater shall be provided with thermostat with 6A MCB as backup protection inside all cable alleys controlled with feeder 20 A DP MCB 10 KA.				
r	An approval shall be taken for each panel before manufacturing.				
s	Provision of one 6/16 amp socket & compartment lighting for each vertical section of panel.				
t	5 nos extra of each R, Y, B, G, A colour indicating lamp and illuminated push buttons and normal push button shall be provided with all panels.				
u	MIMIC diagram shall be provided for Main panel				
v	MIMIC shall be made of polycarbonate sheet of 5 mm thickness fixed on acrylic sheet of 2mm thick. The size of panel shall be such that the diagram can be visualized from 5 to 6 meter distance. The panel shall display complete single line diagram of Main LT Panel. this line diagram shall be made from luminous non-fading materials to glow in dark and each breaker legend shall be provided with bi-colour LED lights to show the ON/OFF status of the respective feeder (Incomers / Bus couplers)				
w	Illuminated push button on Starter Panels of Pumps.				
x	Interlocking / Auto start command terminals for starter Panels.				
y	All breaking Capacity for ACB to be $I_{cs}=100\%I_{cu}$ and I_{cw} for 1 sec.				
z	All breaking Capacity for MCCB to be $I_{cs}=100\%I_{cu}$ and U_{imp} of 8KV & shall be single frame till 250A to save the inventory				
aa	All ACB's shall have all standard accessories such as CT's Arc chute, safety shutter etc.				
ab	Links and drops from ACB/MCCB shall be designed for full rated current of ACB/MCCB rating at same amount of current density as of main busbar.				
ac	All MCB to be C Curve for lighting & power and D curve for UPS power.				
ad	Removable lifting hook shall be provided in all transportation section.				
ae	Multifunction meters installed shall be BMS Compatible, capable of delivering Bacnet, Modbus or Lonworks protocol etc.				
af	Bus bar shall be high conductivity (99%), ETP - Electrical grade				

	copper or 50-55% Aluminium as specified in BOQ.				
ag	Bus bar shall be designed on 45 deg. Ambient temperature and limit of temperature rise shall be 35 deg. Over and above Ambient temperature.				
ah	Bus bars shall be with heat shrinkable PVC sleeves.				
ai	MCB's shall be of minimum 10kA fault with stand capacity.				
aj	Concerning vendor needs to furnish the busbar calculations (for both phase and earth bus) at the time of GA approval and busbar size has to be as per the approved GA drawing.				
ak	Main Distribution LT PANEL	Set	1		
al	Incomer: 1x 250 A, FP, 36kA, MCCB microprocessor based. 1 x 50kA, 2kVp surge arrester with suitable Fuse. 1 x (Digital flush type class -1.0 accuracy multifunction meter with RS-485 communication port for measurement of THD, KVARH KW, KWH, KVAR, PF, V, A, Hz with 10VA Class 1.0 CTs of required ratio)				
am	Busbar (1 Set - 4P + E) Busbar made up of electrolytic grade high conductivity aluminium in rectangular cross section and suitable for 415V, FP, 50 Hz, 300A, 25 kA for 1 sec of required length and cross sectional area.				
an	Outgoings : 6x 63 A, TPN, 25kA, MCCB.				
		Total without GST			
		Total GST Amount			
		Total Amount including GST			

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(Signature of Proprietor/Partner/Chief Executive)
(With Seal)

List of approved make for Electrical works and CCTV

S. No.	Particulars	Make
1.	PVC Insulated Copper Conductor cable	Havells / Polycab / Finolex/ RR Kabel
2.	Aluminum Armored Cable	Havells / Polycab / Nicco
3.	AC Box	ABB/MDS/ Hager/ Havells/LT
4.	MCB/Isolator	ABB/ MDS/ Hager/Havells/LT
5.	Distribution Box	ABB/ MDS/Havells/Hager/LT
6.	PVC conduits/ casing capping	Setia/ Plasoduct / AKG
7.	LED Lights	Philips/ Havells
8.	Exhaust Fan /Wall Fan	Crompton Greaves / Havells
9.	Cat-6 Data cable	AMP/D-Link /Systimatic
10.	10Amp/20Amp modular light and power plug	Anchor Roma/North West /MK
11.	Digital Meter	HPL /L&T / A E
12.	MCCB	L&T / Havells / ABB
13.	Ceiling Fan	Crompton Greaves High Speed / Havells
14.	Telephone wire	Delton/Finolex
15.	RJ-11 outlet socket with modular face plate	Anchor/Roma/Havells

Signature of the contractor with Seal