

**Sub: Quotation for Electrical Works at IMU-Kolkata.**

Indian Maritime University – Kolkata Campus is inviting sealed quotations from approved / registered contractors with IIT, NIT, Central University & CPWD for the following Electrical works to be executed inside the premises of the Campus for Physics Lab under two bid systems i.e. Technical Bid and Financial Bid.

SL	Description of work	Quantity	Unit	Make
1	Supplying and laying of one number XLPE insulated and PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade (ISI marked) of 4x16 sq.mm size in surface with metal shaddelling as required.	55	metre	Polycab/Havells/KEI
2	Supply & laying 2x4 sq.mm FRLS PVC insulated 1.1 KV grade single core copper conductors (ISI marked) for earthing connection from room no 113 of admin building to room no 102 of college building at IMU-KC with necessary shaddelleing with cable under serial no 1.	110	metre	Polycab/Havells/KEI
2	Wiring for power plug with 2x4 + 1x4 sq.mm FRLS PVC insulated 1.1 KV grade single core copper conductor (ISI marked) in surface through PVC conduit (2 mm thick and minimum size 20 mm) and UPVC casing of minimum thickness 2 mm.	180	metre	Polycab/Havells/KEI, Conduit BEC/AKG
3	Supplying and fixing 4 way Horizontal types TPN double door metal (IP 43) distribution board without isolator and MCB for physics laboratory.	1	nos	L&T/Lehrands/Seimens
4	Supply and fixing of 6 to 25 amps 6 KA C Curve SP MCB in the exiting DB box under serial no 3.	12	Nos	Legrand/Schneider/ABB
5	Supply and fixing of 63 amp 4 pole isolator in the exiting DB box under serial no 03.	1	Nos	Legrand/Schneider/ABB
6	Supply and fixing of piano type one way 16 Amp switch.	24	Nos	Legrand/Schneider/L&T/Anchor
7	Supply and fixing of piano type 6 pin 16 Amp socket outlet.	24	Nos	
8	Supply and fixing on wall of suitable size PVC switch box with cover suitable to accommodate 02 nos 16 amp switches and sockets with necessary cutting & connections as required.	12	Nos	
9	Supply and fixing of 63 amps 10 KA C Curve SP MCB in the exiting DB box.	3	nos	Legrand/Schneider/ABB
10	Any others relevant job required as per your site inspection to make the installation fully operation.			

## Terms & conditions:

- (i) The Bid submitted will be evaluated based on the details of technical qualification submitted by the bidder under Cover I in the prescribed formats to ascertain whether the bidders qualify. The Cover II (Price Bid) of only those firms who technically qualify as per the documents in Cover I will be opened. The format for Technical Bid is given in Annexure-I, while price bid format is given in Annexure-II
- (ii) The Cover I shall be addressed to "The Dy. Registrar, Indian Maritime University - Kolkata Campus" and should be duly super scribed as "Cover-I-Technical Bid for Electrical Works at IMU-KC" and sealed properly. Name and Address of the bidder shall also be written/ printed on the cover.
- (iii) The Cover II shall be addressed to "The Dy. Registrar, Indian Maritime University - Kolkata Campus" and should be duly super scribed as "Cover-II-Price Bid for Electrical Works at IMU-KC" and sealed properly. Name and Address of the bidder shall also be written! Printed on the cover.
- (iv) Main Cover Both the "Cover I" and "Cover II" shall be placed inside the main cover, which shall be a addressed to "The Deputy Registrar, Indian Maritime University - Kolkata Campus P-19, Taratala Road, Kolkata: 700088, West Bengal, India" and the main cover should be duly super scribed as "Tender for Electrical Work at IMU-KC" and sealed properly.
- (v) The rates quoted should be comprehensive and inclusive of all delivery charges, installation, commissioning and trail run but excluding taxes which should be stated separately.
- (vi) Last date of submission of quotation is 07.03.2022.
- (vii) Electrical Works to be completed within the period of 3 weeks from the date of issue of Service/Work Order. If the bidder fails to complete service/work by the specified date, penalty at the rate of 0.5 % per week of the total order value subject to the maximum of 10% of total order value will be deducted.
- (viii) Delivery of the above items should be made at IMU - Kolkata Campus at P-19, Taratala Road, Kolkata 700 088.
- (ix) Rates quoted should be valid for a period of 2 months from the last date of submission of the bids.
- (x) **Visit:** Before tendering, the Contractor shall have visited and examined the site and satisfied himself as to the nature of the site after visiting the site, if contractor find any discrepancies, omissions, ambiguities or conflicts in or among the above mentioned job details or to be in doubt as to their meaning he shall bring the questions to the IMU-KC attention, not later than three days before the last date for submission of the tender.
- (xi) **Cleaning up & handing over:** Upon completion of the work all the site area should be cleaned. All works shall be cleaned in manner which will render the work acceptable to the IMU-KC. All rubbish shall be removed from the site and shall not be dumped in the surrounding area.
- (xii) All materials and workmanship shall be as per the relevant I.S .Code and of approved quality and make and the Contractor shall immediately remove from the works any material and/or workmanship which in the

opinion of IMU-KC are defective or unsuitable and shall substitute proper material and or workmanship at his own cost.

- (xiii) All electrical works will be carried out as per 'GENERAL SPECIFICATIONS FOR ELECTRICAL WORKS, PART-1, INTERNAL, 2005'- CPWD publication.
- (xiv) **WORKMANSHIP:** Good workmanship is an essential requirement to be complied with. The entire work of assembly and installation shall conform to sound engineering practice.
- (xv) No non-metallic conduits less than 20 mm in diameter shall be used.
- (xvi) **Use of quality materials:** Only quality materials of reputed make as specified in the Approved List of Makes will be used in work.
- (xvii) **Conduits, Wires, Cables, switch board items & DB's accessories:** All materials shall bear manufacturer's label and shall be brought to site in new and original packages.
- (xviii) **Bunching of Wires:** Wires carrying current shall be so bunched in conduits that the outgoing and return wires are drawn into the same conduit. Wires originating from two different phases shall not be run in the same conduit.
- (xix) Wiring conductors shall be continuous from outlet to outlet. Joints where unavoidable, due to any special reason shall be made by approved connectors.
- (xx) **Load Balancing:** The Contractor shall plan the load balancing of circuits in 3 phase installation and get the same approved by IMU-KC before commencement of the work.
- (xxi) **Colour Code of Conductors:** Colour code shall be maintained for the entire wiring installation - red, yellow blue for three phases, black for neutral and green for earth.
- (xxii) **COMMISSIONING ON COMPLETION:** After the work is completed it shall be ensured that the installation is tested and commissioned.
- (xxiii) Rates shall include cleaning of dust; splashes of colour wash or paint from wall and or repair/sealing of holes on the wall at the time of taking over of the installation.
- (xxiv) Conditional bids will not be accepted.
- (xxv) 100% Payment will be made through Bank Transfer after successful installation, delivery and trial run of the equipment/installation.
- (xxvi) Minimum 1-year free service warranty should be given from the date of handover of the installation. Calls should be attended within 72 hours in case of any break down.
- (xxvii) Cancellation of Tender: Notwithstanding anything specified in this bidding document, Purchaser / Indian Maritime University – Kolkata Campus at its sole discretion, unconditionally and without assigning any reason, reserves the right:
  - a) To accept OR reject lowest bid or any other bid or all the bids.
  - b) To accept any bid in full or in part.
  - c) To reject the bid offer not confirming to the tender's terms.
  - d) To give purchase preference to Public Sector undertakings when applicable as per Govt. Policy/ Guidelines

To  
The Deputy Registrar  
Indian Maritime University - Kolkata Campus  
P-19 Taratala Road, Kolkata - 7000 88

Dear Sir,

Having agreed to the terms and condition of the tender, we hereby submit our Technical Bid for "Electrical Work at IMU-KC" as detailed below

**Annexure – I**

**Format of Technical Bid**

Procurement of Electrical Works at IMU-KC

SL	Description of work	Quantity	Unit	Make	Agree Y/N
1	Supplying and laying of one number XLPE insulated and PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade (ISI marked) of 4x16 sq.mm size in surface with metal shaddelling as required.	55	metre	Polycab/Havells/KEI	
2	Supply & laying <u>2x4</u> sq.mm FRLS PVC insulated 1.1 KV grade single core (ISI marked) copper conductors for earthing connection from room no 113 of admin building to room no 102 of college building at IMU-KC with necessary shaddelleing with cable under serial no 1.	110	metre	Polycab/Havells/KEI	
2	Wiring for power plug with <u>2x4 + 1x4</u> sq.mm FRLS PVC insulated 1.1 KV grade single core copper conductor (ISI marked) in surface through PVC conduit (2 mm thick and minimum size 20 mm) and UPVC casing of minimum thickness 2 mm.	180	metre	Polycab/Havells/KEI, Conduit BEC/AKG	
3	Supplying and fixing 4 way Horizontal types TPN double door metal (IP 43) distribution board without isolator and MCB for physics laboratory.	1	nos	L&T/Lehrands/Seimens	
4	Supply and fixing of 6 to 25 amps 6 KA C Curve SP MCB in the exiting DB box under serial no 3.	12	Nos	Legrand/Sc henieder/ABB	
5	Supply and fixing of 63 amp 4 pole isolator in the exiting DB box under serial no 03.	1	Nos	Legrand/Sc henieder/ABB	
6	Supply and fixing of piano type 16	24	Nos	Legrand/Sc	

	Amp switch.			henieder/L &T/Anchor	
7	Supply and fixing of piano type 6 pin 16 Amp socket outlet.	24	Nos		
8	Supply and fixing on wall of suitable size G.I box with cover suitable to accomodate 02 nos 16 amp switches and sockets with necessary cutting & connections as required.	12	Nos		
9	Supply and fixing of 63 amps 10 KA C Curve SP MCB in the exiting DB box.	3	nos	Legrand/Sc henieder/A BB	
1 0	Any others relevant job required as per your site inspection to make the installation fully operation.				

Yours faithfully,

Date

Place:

Signature with Seal of Authorized Signatory

To  
 The Deputy Registrar  
 Indian Maritime University - Kolkata Campus  
 P-19 Taratala Road, Kolkata - 7000 88

Dear Sir,

Having agreed to the terms and condition of the tender, we hereby submit Price Bid for "Electrical Work at IMU-KC" as detailed below

**Annexure – II**

**Format of Price Bid**

Procurement of instrument for Electrical Works at IMU-KC

SL	Description of work	Quantity	Rate /Unit (Rs) Excluding tax	Total Amount (Rs)
A	B	C	D	E=C X D
1	Supplying and laying of one number XLPE insulated and PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade (ISI marked) of 4x16 sq.mm size in surface with metal shaddelling as required.	55	metre	
2	Supply & laying 2x4 sq.mm FRLS PVC insulated 1.1 KV grade single core copper conductors for earthing connection from room no 113 of admin building to room no 102 of college building at IMU-KC with necessary shaddelleing with cable under serial no 1.	110	metre	
2	Wiring for power plug with 2x4 + 1x4 sq.mm FRLS PVC insulated 1.1 KV grade single core copper conductor (ISI marked) in surface through PVC conduit (2 mm thick and minimum size 20 mm) and UPVC casing of minimum thickness 2 mm.	180	metre	

3	Supplying and fixing 4 way Horizontal type TPN double door metal (IP 43) distribution board without isolator and MCB for physics laboratory.	1	nos	
4	Supply and fixing of 6 to 25 amp 6 KA C Curve SP MCB in the exiting DB box under serial no 3.	12	Nos	
5	Supply and fixing of 63 amp 4 pole isolator in the exiting DB box under serial no 03.	1	Nos	
6	Supply and fixing of piano type 16 Amp switch.	24	Nos	
7	Supply and fixing of piano type 6 pin 16 Amp socket outlet.	24	Nos	
8	Supply and fixing on wall of suitable size G.I box with cover suitable to accommodate 02 nos 16 amp switches and sockets with necessary cutting & connections as required.	12	Nos	
9	Supply and fixing of 63 amp 10 KA C Curve SP MCB in the exiting DB box.	3	nos	
10	Any others relevant job required as per your site inspection to make the installation fully operation.			
11	Total (Sl. No. 1 to Sl. No. 10)			
12	Applicable Taxes			
13	Grand Total (13= 11 + 12)			

Yours faithfully,

Date

Place:

Signature with Seal of Authorized Signatory