



भारतीय समुद्रीय विश्वविद्यालय
Indian Maritime University
(केन्द्रीय विश्वविद्यालय, भारत सरकार / A Central University, Govt. of India)
कोलकता परिसर / Kolkata Campus



No. IMU-KC/Electrical/2022-23

Date: 01.09.2022

Sub: Quotation for Electrical Works at IMU – Kolkata Campus

Indian Maritime University – Kolkata Campus, located at P-19, Taratala Road, Kolkata – 700 088 is inviting sealed quotations from approved / registered contractors with IIT, NIT, Central University & CPWD towards the following Electrical works to be executed inside the premises of the Campus under the two bid system i.e. Technical Bid and Financial Bid:

Sl. No.	Description of work	Quantity	Unit	Make
	Power supply provision for SCBS Compressor set in Room no 19 of Administrative Building of IMU-KC:			
1	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos. TPN output, indoor type with vermin and dust ingress protection as required	01	No.	L&T / Siemens / Legrand / ABB etc.
2	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied bus bar under serial no 01 with PVC flexible conduit as required near room 18	03	Mtr.	L&T / Polycab / Finolex / ABB etc.
3	3 Phase 4 wire powers out let by DOL starter (5-7.5 HP capacity).	01	No.	L&T / Siemens / Crompton / ABB etc.
4	SITC of 32 Amp TPN MCB with enclosure including connection as required in the room no 19 of Admin building.	01	No.	L&T / Siemens / Legrand / ABB etc.
5	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit etc. with connections as required	11	Mtr.	L&T / Polycab / Finolex / BEC / AKG etc.
	Power supply provision for fluid mechanics Laboratory in Room no 07 of College Building at IMU-KC:			
1	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required	170	Mtr.	L&T / Polycab / Finolex / BEC / MK / AKG etc.
2	Wiring for power plug with (2x4+1x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required.	170	Mtr.	L&T / Polycab / Finolex / BEC / MK / AKG etc.
3	Single phase with neutral plus earthing for power out let by 32/40 Amp DP C curve MCB with enclosure with connection and earthing the system as required with power outlet sockets having 01 no 15 Amp switch and socket outlet in each board as required.	12	Nos.	L&T / Legrand / Siemens / ABB / Anchor etc.

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4	Three phase with neutral plus earthing for power out let by 32/40 Amp FP C curve MCB with enclosure with connection and earthing the system as required.	08	Nos.	L&T / Legrand / Siemens / ABB etc.
5	Supply and fixing of Power distribution board having double door 12 way vertical type in room no 07 of college building for main power supply DB to power supply to various machines of required capacity along with single incoming and 08 nos TPN out going with 12 nos SPN out going but without MCB & isolator.	01	Nos.	L&T / Legrand / Siemens / ABB etc.
6	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 07.	01	No.	L&T / Legrand / Siemens / ABB etc.
7	Supply of TP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	08	Nos.	L&T / Legrand / Siemens / ABB etc.
8	Supply of SP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	12	Nos.	L&T / Legrand / Siemens / ABB etc.
9	Supplying and laying / fixing of Aluminium conductor armoured 3 phase & neutral power cable of 16 sq.mm 4 core on surface with 2x4 sq.mm PVC insulated single core copper earthing wire from corridor of room no 09 to room no 07 vertical DB.	40	Mtr.	L&T / Polycab / Finolex / ABB etc.
10	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos TPN output, indoor type with vermin and dust ingress protection as required which will be install near room no 09 of college building.	01	No.	L&T / Siemens / Legrand / ABB etc.
11	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied busbar under serial no 01 with PVC flexible conduit as required near room 09 of college building.	03	Mtr.	L&T / Polycab / Finolex / ABB etc.
12	Supply and fixing of Power distribution board having double door 4 way vertical/horizontal type in room no 09 of college building for main power supply DB to existing to various machines of required capacity along with single incoming and 03 nos TP out going with 03 nos SPN out going but without MCB & isolator.	01	No.	L&T / Siemens / Legrand / ABB etc.
13	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 12	01	No.	L&T / Siemens / Legrand / ABB etc.
14	Supply of TP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	Nos.	L&T / Siemens / Legrand / ABB etc.
15	Supply of SP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	Nos.	L&T / Siemens / Legrand / ABB etc.

** All works needs to be carried out as per CPWD specifications and works manuals.

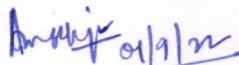
** Bidder are requested to visit the site by their own cost to assess the actual site conditions and any other additional works needed to make the system fully operational.

** **Estimated Total Cost: Rs. 3,35,000.00 (excluding GST)**

Terms & Conditions:

1. EMD (Earnest Money Deposit): Bidders should submit EMD amounting to Rs. 7,000.00 (Rupees Seven Thousand Only) in the form of Demand Draft drawn on any Nationalized / Scheduled Bank in favour of "Indian Maritime University – Kolkata Campus", payable at Kolkata. No other form of deposit towards EMD shall be accepted. However, exemption from EMD may be considered by IMU-KC only upon submission of relevant and valid MSME / NSIC Registration Certificate.
2. 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
3. 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.
4. 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.
5. Main Cover Both the "Cover I" and "Cover II" shall be placed inside the main cover, which shall be 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.
6. The rates quoted should be comprehensive and inclusive of all delivery charges, installation, commissioning and trial run but excluding taxes which should be stated separately.
7. Last date of submission of quotation is 15.09.2022.
8. 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.
9. Delivery of the above items should be made at IMU - Kolkata Campus at P-19, Taratala Road, Kolkata 700 088.
10. Rates quoted should be valid for a period of 2 months from the last date of submission of the bids.
11. **Visit:** Before tendering, the Contractor shall have to visit and examine the site and satisfy 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.
12. **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.
13. 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.

14. All electrical works will be carried out as per 'GENERAL SPECIFICATIONS FOR ELECTRICAL WORKS, PART-1, INTERNAL, 2005' - CPWD publication.
15. **WORKMANSHIP:** Good workmanship is an essential requirement to be complied with. The entire work of assembly and installation shall conform to sound engineering practice.
16. No non-metallic conduits less than 20 mm in diameter shall be used.
17. **Use of quality materials:** Only quality materials of reputed make as specified in the Approved List of Makes will be used in work.
18. **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.
19. **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.
20. Wiring conductors shall be continuous from outlet to outlet. Joints where unavoidable, due to any special reason shall be made by approved connectors.
21. **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.
22. **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.
23. **COMMISSIONING ON COMPLETION:** After the work is completed it shall be ensured that the installation is tested and commissioned.
24. 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.
25. Conditional bids will not be accepted.
26. 100% Payment will be made through Bank Transfer after successful installation, delivery and trial run of the equipment/installation.
27. 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.
28. 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.


O.I.C. – Purchase

To
The Deputy Registrar
Indian Maritime University - Kolkata Campus
P-19, Taratala Road, Kolkata - 700088

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. No.	Description of work	Quantity	Unit	Make	Agree Y / N
	Power supply provision for SCBS Compressor set in Room no 19 of Administrative Building of IMU-KC:				
1	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos. TPN output, indoor type with vermin and dust ingress protection as required	01	No.	L&T / Siemens / Legrand / ABB etc.	
2	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied bus bar under serial no 01 with PVC flexible conduit as required near room 18.	03	Mtr.	L&T / Polycab / Finolex / ABB etc.	
3	3 Phase 4 wire powers out let by DOL starter (5-7.5 HP capacity).	01	No.	L&T / Siemens / Crompton / ABB etc.	
4	SITC of 32 Amp TPN MCB with enclosure including connection as required in the room no 19 of Admin building.	01	No.	L&T / Siemens / Legrand / ABB etc.	
5	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit etc. with connections as required	11	Mtr.	L&T / Polycab / Finolex / BEC / AKG / ABB etc.	
	Power supply provision for fluid mechanics Laboratory in Room no 07 of College Building at IMU-KC:				
1	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required	170	Mtr.	L&T / Polycab / Finolex / BEC / MK / AKG etc.	
2	Wiring for power plug with (2x4+1x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required.	170	Mtr.	L&T / Polycab / Finolex / BEC / MK / AKG etc.	
3	Single phase with neutral plus earthing for power out let by 32/40 Amp DP C curve MCB with enclosure with connection and earthing the system as required with power outlet sockets having 01 no 15 Amp switch and socket outlet in each board as required.	12	Nos.	L&T / Legrand / Siemens / ABB / Anchor etc.	
4	Three phase with neutral plus earthing for power out let by 32/40 Amp FP C curve MCB with enclosure with connection and earthing the system as required.	08	Nos.	L&T / Legrand / Siemens / ABB etc.	

: 6 :

5	Supply and fixing of Power distribution board having double door 12 way vertical type in room no 07 of college building for main power supply DB to power supply to various machines of required capacity along with single incoming and 06 nos TPN out going with 12 nos SPN out going but without MCB & isolator.	01	Nos.	L&T / Legrand / Siemens / ABB etc.	
6	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 07.	01	No.	L&T / Legrand / Siemens / ABB etc.	
7	Supply of TP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	08	Nos.	L&T / Legrand / Siemens / ABB etc.	
8	Supply of SP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	12	Nos.	L&T / Legrand / Siemens / ABB etc.	
9	Supplying and laying / fixing of Aluminium conductor armoured 3 phase & neutral power cable of 16 sq.mm 4 core on surface with 2x4 sq.mm PVC insulated single core copper earthing wire from corridor of room no 09 to room no 07 vertical DB.	40	Mtr.	L&T / Polycab / Finolex / ABB etc.	
10	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos TPN output, indoor type with vermin and dust ingress protection as required which will be install near room no 09 of college building.	01	No.	L&T / Siemens / Legrand / ABB etc.	
11	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied busbar under serial no 01 with PVC flexible conduit as required near room 09 of college building.	03	Mtr.	L&T / Polycab / Finolex / ABB etc.	
12	Supply and fixing of Power distribution board having double door 4 way vertical/horizontal type in room no 09 of college building for main power supply DB to existing to various machines of required capacity along with single incoming and 03 nos TP out going with 03 nos SPN out going but without MCB & isolator.	01	No.	L&T / Siemens / Legrand / ABB etc.	
13	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 12	01	No.	L&T / Siemens / Legrand / ABB etc.	
14	Supply of TP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	Nos.	L&T / Siemens / Legrand ABB etc.	
15	Supply of SP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	Nos.	L&T / Siemens / Legrand / ABB etc.	

Yours faithfully

Date

Place:

Signature with Seal of Authorized Signatory

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: 7 :

To
The Deputy Registrar
Indian Maritime University - Kolkata Campus
P-19 Taratala Road, Kolkata - 700088

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. No.	Description of work	Quantity	Unit	Unit Rate	GST per unit	Total unit rate	Total Amount
A	B	C	D	E	F	G=E+F	H=GXC
1	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos. TPN output, indoor type with vermin and dust ingress protection as required	01	No.				
2	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied bus bar under serial no 01 with PVC flexible conduit as required near room 18	03	Mtr.				
3	3 Phase 4 wire powers out let by DOL starter (5-7.5 HP capacity).	01	No.				
4	SITC of 32 Amp TPN MCB with enclosure including connection as required in the room no 19 of Admin building.	1	No.				
5	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit etc. with connections as required	11	Mtr.				
	Power supply provision for fluid mechanics Laboratory in Room no 07 of College Building at IMU-KC:						
1	Wiring for power plug with (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required	170	Mtr.				
2	Wiring for power plug with (2x4+1x4) sq.mm FRLS PVC insulated copper conductor single core wire in surface PVC conduit / UPVC casing etc with connections as required.	170	Mtr.				

Cntd...8

3	Single phase with neutral plus earthing for power outlet by 32/40 Amp DP C curve MCB with enclosure with connection and earthing the system as required with power outlet sockets having 01 no 15 Amp switch and socket outlet in each board as required.	12	Nos.				
4	Three phase with neutral plus earthing for power outlet by 32/40 Amp FP C curve MCB with enclosure with connection and earthing the system as required.	08	Nos.				
5	Supply and fixing of Power distribution board having double door 12 way vertical type in room no 07 of college building for main power supply DB to power supply to various machines of required capacity along with single incoming and 06 nos TPN out going with 12 nos SPN out going but without MCB & isolator.	01	No.				
6	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 07.	01	No.				
7	Supply of TP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	08	No.				
8	Supply of SP 6 - 32 Amp C curve MCB suitable power DB supplied under serial no 07.	12	No.				
9	Supplying and laying / fixing of Aluminium conductor armoured 3 phase & neutral power cable of 16 sq.mm 4 core on surface with 2x4 sq.mm PVC insulated single core copper earthing wire from corridor of room no 09 to room no 07 vertical DB.	40	Mtr.				
10	Supply and fixing of 100 Amp 4 way copper bus bar box suitable for 415 volt 3 phase 4 wire having single TPN input and 03 nos TPN output, indoor type with vermin and dust ingress protection as required which will be install near room no 09 of college building.	01	No.				
11	Necessary connection by (4x4+2x4) sq.mm FRLS PVC insulated copper conductor single core from exiting MCCB to supplied busbar under serial no 01 with PVC flexible conduit as required near room 09 of college building.	03	Mtr.				
12	Supply and fixing of Power distribution board having double door 4 way vertical/horizontal type in room no 09 of college building for main power supply DB to existing to various machines of required capacity along with single incoming and 03 nos TP out going with 03 nos SPN out going but without MCB & isolator.	01	No.				
13	Supply of FP 63 Amp isolator suitable power DB supplied under serial no 12	01	No.				
14	Supply of TP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	No.				
15	Supply of SP 32 Amp B Curve MCB suitable power DB supplied under serial no 12	03	No.				

Yours faithfully,

Date

Place:

Signature with Seal of Authorized Signatory