



**INDIAN MARITIME UNIVERSITY  
MUMBAI PORT CAMPUS**

**TENDER FOR "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY"**

**at IMU Mumbai Port campus, Hay Bunder Road**

**TENDER NO – IMU-MPC/PUR/2020-21/Upgrade E&E Lab./14**

**VOLUME - I**

**TECHNICAL BID**

<b>Issue of Tender Document</b>	<b>: 26.03.2021</b>
<b>Pre-Bid Meeting</b>	<b>: 1230 Hrs on 07.04.2021</b>
<b>Last Date for Submission</b>	<b>: up to 1700 Hrs on 16.04.2021</b>
<b>Opening of Technical Bid</b>	<b>: 1200 Hrs on 19.04.2021</b>
<b>Earnest Money Deposit (EMD)</b>	<b>: NIL</b>
<b>Estimated Cost</b>	<b>:14 Lakhs</b>

[Bidders are advised to study the Tender Document (including all Sections, Schedules and Annexure etc.,) carefully. Submission of Tender shall deem to have been done after careful study and examination of the Tender Document with full understanding of its implications.]

All bidders are requested to visit IMU Mumbai Campus website : [www.imumumbaiport.ac.in](http://www.imumumbaiport.ac.in) & [www.imu.edu.in](http://www.imu.edu.in) for regular updates.

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**INDIAN MARITIME UNIVERSITY**  
**(A central University, Govt. of India)**  
**Mumbai Port Campus,**  
**Mumbai – 400033**

**TENDER NO. IMU-MPC/PUR/2020-21/Upgrade E&E Lab./14**

**TENDER FOR “UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY” AT IMU MUMBAI PORT CAMPUS**

**1. OBJECTIVE:-**

IMU Mumbai Port Campus is inviting open tenders from qualified bidders for providing “UPGRADATION OF ELECTRICAL AND ELECTRONICS LABORATORY” at IMU Mumbai Port Campus, Hay Bunder Road, Mumbai – 400033.

**2. PRE-QUALIFICATION CRITERIA:-**

The eligible bidder has to satisfy the following condition

Sr. No.	Qualification Criteria	Supporting Documents	Bidder Confirmation with Page No.
2.1	a) The bidder should have satisfactorily completed three similar works during the last two years each costing not less than 40% of the present estimated cost i.e. Rs. 3,60,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute; <b>OR</b>	1. Copy of Purchase Order or Contract agreement proving 'Award of Work'. <b>OR</b> 2. Copy of Completion Certificate. <b>OR</b> 3. Final Invoice. <b>OR</b> 4. Letter indicating return of Security Deposit for proving satisfactory 'Completion of Work', Cost of each item to be indicated separately on submitted documents. <b>(Duly filled Annexure III [Form-II])</b> [Similar Works means work in “SUPPLY, INSTALLATION, SERVICE, REPAIRS, SHIFTING & AMC of Laboratory Equipment]	
	b) Two similar works during last two years each costing not less than 50% of the present estimated cost i.e. Rs. 4,50,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute; <b>OR</b>		
	c) One similar work during last two years each costing not less than 80% of the present estimated cost i.e. Rs. 7,20,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute.		
2.2	The bidder should have average annual turnover of Rs. <b>05 Lakhs</b> during the last 03 financial years (i.e. 2017-18, 2018-19, 2019-20).	1. Copy of Profit & Loss Account of the company for each of the 3 years authenticated by a Chartered Accountant. 2. Copy of Income Tax return for each of the 3 years authenticated by a Chartered Accountant	<b>2017-18</b> Rs. _____
			<b>2018-19</b> Rs. _____
			<b>2019-20</b> Rs. _____
2.3	Bidder should be a Manufacturer or an authorized dealer.	In case of bidder is an authorized dealer, letter of authorization from OEM shall be submitted and in case of manufacturer BIS certificate should be submitted.	

**3. EARNEST MONEY DEPOSIT (EMD):-**

Every Bidder shall submit a Bid Security Declaration in the attached format as Annexure III (Form – V)

#### **4. Security Deposit:-**

- 4.1. Within 07 days of the successful bidder's receipt of notification of award from IMU – MPC, the Bidder shall furnish a Security Deposit at the rate of 03% of the contract value in the form of an A/C Payee Demand Draft drawn in the name of Indian Maritime University – Mumbai Port Campus, payable at Mumbai towards due compliance of contract obligations to the satisfaction of the IMU – MPC and to make good any loss or damage caused to the IMU – MPC owing to acts in pursuance/violation of terms herein.
- 4.2. Security Deposit will be refunded / returned without any interest only 90 days after successful completion of AMC period. The refund or return of Security Deposit is subject to the complete fulfillment of the contract obligation by the supplier to the satisfaction of IMU and after adjustment of dues to IMU or penalty imposed by IMU.

#### **5. GENERAL INSTRUCTION:-**

- 5.1. **Sale of Documents:** The Tender document can be downloaded free of cost from the IMU website [www.imu.edu.in](http://www.imu.edu.in) and [www.imumumbaiport.ac.in](http://www.imumumbaiport.ac.in).
- 5.2. **Submission:**
  - 5.2.1. The Tender shall be submitted in tender box which will be placed at the Main Gate of IMU-MPC, addressed to **THE DIRECTOR, INDIAN MARITIME UNIVERSITY, MUMBAI PORT CAMPUS, HAY BUNDER ROAD, MUMBAI-400033 upto date mentioned in cover page.**
  - 5.2.2. The tenderer's shall seal the Technical-Bid and Price-Bid in separate envelopes (Cover-1 and Cover-2) duly marking the envelopes as "**Cover-1-Technical Bid**" and "**Cover-2-Price Bid**". The two envelopes along with the covering letter, EMD, Power of Attorney, if any shall then be sealed in an outer envelope.
  - 5.2.3. The main envelope shall contain the following:

**Outer Envelope**

    - (a) Covering Letter;
    - (b) Earnest Money Deposit Demand Draft;
    - (c) Sealed Cover –1; and
    - (d) Sealed Cover –2

**Cover-1 – Technical Bid**

    - a. Duly filled in Tender-Documents with relevant details and complete in all respects. (Except price bid)
    - b. Documents in support of pre-qualification criteria as mentioned in para 2.1 to 2.3
    - c. Annexure – I (Compliance matrix to be filled and signed)
    - d. Annexure – II (Form of Tender)
    - e. Annexure – III (Form I to Form V)
    - f. Annexure – IV (Mandate Form)

## **Cover –2 – PriceBid**

**PRICE BID/COVER** duly filled in (both in figures and words).

- 5.2.4. The IMU-MPC, in exceptional circumstances, and at its sole discretion, may extend the tender due date by issuing a corrigendum.
- 5.2.5. The tenders will be opened in the presence of the representatives of the tenderers who choose to attend the tender opening (The maximum number of representatives attending the technical bid opening to be limited to 01 person).
- 5.2.6. The financial bids of the bidders who are technically qualified will be opened. The Bidders are requested to visit IMU Mumbai port Campus website [www.imu.edu.in](http://www.imu.edu.in) and [www.imumumbaiport.ac.in](http://www.imumumbaiport.ac.in) for updates.
- 5.2.7. IMU reserves the right to cancel or withdraw the tender any time. IMU also reserves the right to reject any or all tenders without assigning any reason.
- 5.2.8. The bidder shall read and understand the contents of the tender documents, carefully. Failure to comply with the requirements of tender submission will render the tender liable for rejection. Tenders, which are not responsive to the requirements of the tender conditions, will be rejected.

### **6. Validity:**

The offer will remain valid for a period of 120 days from the date of opening of tender. If required, the validity shall be extended for further period by mutual consent.

### **7. Evaluation of Bids:**

#### **7.1. Technical Bid Evaluation:**

The information furnished by the bidder in Cover – I in the prescribed format supplied by IMU- MPC will form the basis for the technical evaluation. In exceptional cases IMU- MPC or his representative reserves the right to obtain any clarifications from any of the bidder without vitiating the tendering process. If, in the opinion of the IMU- MPC, Seal & Signature of Bidder information and documents supplied in support of the tender do not meet the requirements of the tender specifications, the tender may be determined as non-responsive and may be rejected by the IMU- MPC. After satisfying that all / or some of the bidders have attained the minimum qualifying criteria as detailed above, bids of only the technically qualified bidders who fulfill all the pre-qualification / eligibility criteria, will be considered for further evaluation. If a bidder does not fulfill even single minimum eligibility criteria / pre-qualification criteria during the technical bid evaluation, his financial bids will not be evaluated.

#### **7.2. Financial Bid Evaluation:**

- 7.2.1. The bidder may place their bids for any or all lab equipment/ services/ repairs.

- 7.2.2. The Bidder who are placing their bids for only one lab equipment should write NOT APPLICABLE in the bid for the other equipment.
- 7.2.3. The bidder quoting price for any Lab equipment has to quote for its AMC as well, else the bid will be rejected.
- 7.2.4. The price bid will be reviewed for each equipment separately or both cumulatively for all items at the discretion of IMU-MPC i.e. IMU-MPC may declare L1 for each equipment separately or cumulative.
- 7.2.5. The L1 for each item will be calculated as per formula [Rates quoted for items + Average of two years AMC rates quoted]

**8. Inspection & Rejection:**

The supply may be subject to inspection by IMU-MPC and IMU's decision to the acceptance of any equipment or rejection of any equipment/goods as not conforming to specification shall be final and binding on the successful bidder. Such of the equipment / goods which are rejected shall be removed by the successful bidder at their own expense and replaced by fresh ones within a time, as determined by IMU.

**9. Payment Terms:**

**9.1. New Equipment:**

- 9.1.1. No advance payment will be made.
- 9.1.2. The Supplier shall be paid 100% of payment against Supply, Installation, Commissioning, Acceptance Testing, Training and putting in to operation of equipment at designated place against the invoice. IMU will, after verification of the claim for its correctness, make payment within Thirty days after the date of receipt of the claim, complete and correct in all respects, from the supplier.
- 9.1.3. Up to 30% of total payment may be considered against supply of complete material prior to installation on case to case basis. Additional up to 30% payment may be considered after completion of installation. Balance payment after Commissioning, Acceptance Testing, Training and putting in to operation of equipment at designated place against the invoice.

**9.2. Annual Maintenance Contract:**

- 9.2.1. In respect of AMC, AMC charges will be paid at the end of each AMC period.

**9.3. Repair and Servicing of equipment:**

- 9.3.1. The payment w.r.t. repair/servicing/up-gradation will be made only after the successful completion of the respective activity and trials.

- 9.4. The Tax Invoice raised by the supplier must be in compliance of relevant GST acts, rules & notifications made there under and should bear the IMU MPC GST Registration no. 27AAAI2610K2ZW. The rate and amount of CGST, SGST, IGST and GST (Compensation to state) cess, related to supply of goods, shall be shown separately in tax invoice for each item of supply.

- 9.5. GST on LD charges/ penalty deducted against supplies and EMD/ Security deposit/ performance guarantee forfeiture against supplies, if any, shall be borne by you.
- 9.6. Statutory variation: If there is any statutory change in CGST & SGST or IGST within contractual delivery period, the same shall be admissible and will be paid at actual based on the documentary evidence. However, no upward revision in the same beyond original delivery period shall be admissible.

**10. Clarification /Information:**

A bidder requiring any clarification regarding the tender documents may notify in writing to the address mentioned in the invitation of tenders or E-Mail to [procurement.mumbaiport@imu.ac.in](mailto:procurement.mumbaiport@imu.ac.in) with a copy to [director.mumbaiport@imu.ac.in](mailto:director.mumbaiport@imu.ac.in). IMU-MPC will respond to any valid request for clarification, raised during the pre-bid meeting or received one week prior to the last date for submission of tenders. IMU-MPC's decision is final and binding with regard to interpretation of terms used or other tender contents.

**11. Resolution of Disputes:**

- 11.1. Any dispute or difference or claim of any kind whatsoever between IMU and the Contractor arising in connection with or out of this contract; its execution whether during the execution of Contract or upon expiry; or whether before/after the determination, abandonment or breach of Contract ("the Dispute") shall in the first instance be amicably resolved through good faith negotiations between the Parties within a period of 10 days from the date of service of notice on the other Party regarding such Dispute.
- 11.2. Any other situation that has arisen which, in the reasonable opinion of IMU, interferes or threatens to interfere-with the successful execution of the services for which this Contract has been executed.

**12. Scope of Work:**

**"Section A"**

- 12.1. Supply, Installation and AMC of Electrical & Electronics LAB equipment as mentioned in the table below: -

Sl. No.	Name of the Equipment	Qty
1	Digital Oscilloscope	01
2	Digital Multimeter	03
3	8085 Microprocessor trainer kit	04
4	8051 Microcontroller kit	04
5	Air Circuit Breaker Trainer with Power Supply & Controls	01

- 12.2. **Supply of Equipment:** The supply shall include complete set of equipment including accessories, spares and consumables as described in the subsequent paragraphs of the "Technical Specification" along with the pedestal for easy accessibility for the trainees **(Annexure- I).**

**12.3. Installation, Demonstration and User Acceptance Testing:**

- 12.3.1. The supplier is required to supply the items within 30 days of the issuance of the work order and do the installation and demonstration of the equipment within 15 days of the arrival of materials at the IMU's site of installation; otherwise the penalty clause will be the same as per the supply of materials.
- 12.3.2. The successful Bidder shall depute their Service Engineer for demonstration or calibration of the equipment. The Service Engineer shall demonstrate operation of equipment to the satisfaction of IMU-MPC Campus. IMU-MPC may request to demonstrate the functioning of the equipment, after installation, by asking to perform a few experiments and verification of the results either by theoretical or other practical means.
- 12.3.3. In case of any mishappening /damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IMU will not be liable to any type of losses in any form.
- 12.3.4. The acceptance tests for supplied goods shall be carried out at IMU by the supplier with the participation of concerned personnel from IMU-MPC.
- 12.3.5. In case of the acceptance tests are not concluded to the satisfaction of IMU the supplier shall repair or replace, at the supplier's cost, the whole or any part of the equipment as may be necessary for conclusion of the acceptance tests to the satisfaction of IMU within the reasonable period agreed by IMU. Demonstration of performance of the equipment should be done after such repair / replacement for acceptance of IMU.
- 12.3.6. IMU reserves the right to accept the delivered items with deviations, provided the supplier agrees to rectify the deviations within the stipulated delivery and installation period. Regarding the acceptance date, decision of IMU would be final.
- 12.3.7. The supplier shall provide necessary consumables till the completion of acceptance testing, without any additional cost.
- 12.3.8. All parts and equipment should be brand new and unused. Refurbished items shall not be accepted.
- 12.3.9. The equipment shall be robust for academic use and shall have to produce results with accuracy, as determined reasonable by IMU.

**12.4. Documentation:**

- 12.4.1. The successful bidder shall provide IMU with necessary documents including the following:



- 12.4.1.1. Operational and Maintenance Manuals of equipment.
  - 12.4.1.2. Equipment serial numbers and models.
  - 12.4.1.3. Test Certificates, Licenses if any.
  - 12.4.1.4. Acceptance test results and acceptance status.
  - 12.4.1.5. Training Material.
  - 12.4.1.6. Full documentation with the software. (if applicable)
- 12.4.2. Two sets of hardcopy of the above shall be handed over to nominated personnel of IMU. Soft copy of the documents shall also be provided where applicable. Handing over of documents to IMU by supplier is a pre-requisite for Acceptance.
- 12.4.3. Manuals for the instruments are to be supplied with respect to operation, maintenance, ordering spares / technical services.
- 12.4.4. A video clip on the operation of equipment shall be made available.
- 12.5. **Site Preparation:** The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which IMU should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the IMU Campuses and see the site where the equipment is to be installed and may offer his advice and render assistance regarding specification, material and associate fittings/ fixtures required for preparation of the site and other pre-installation requirements, to bring the equipment at the stage of operation, within One week of issuance of order.
- 12.6. **Acceptance of Equipment:**
- 12.6.1. The activity shall deem to have been completed with the completion of Supply, Installation, Servicing, Repairs and putting in to operation of equipment at IMU MPC. However, the supply shall be complete only upon certification to this effect issued by IMU-MPC.
  - 12.6.2. Upon completion of Supply / work and after successful completion of other prerequisites like acceptance testing, Training etc., as prescribed in this document, IMU shall receive a written undertaking from the supplier that the supply / works have been completed and accordingly a certificate of completion would be issued in respect of the supply/works. The warranty period for the supplied system would commence from the date of Acceptance by IMU separately for each Campus.
- 12.7. **Replacement of Defective Equipment:** If any of the equipment supplied by the supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the IMU will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the supplier with 18% interest per

annum if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 30 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IMU may consider 'Banning' the supplier and any other remedies, as deemed fit by IMU-MPC.

**"Section – B"**

**12.8. Repair & Servicing of Electrical & Electronics LABequipments as below:**

Sl. No.	Name of the Equipment	Defects
1	Multi Process Control Trainer	<ul style="list-style-type: none"> <li>• Faulty components to be repaired/replaced – Keypad , display, motor, sensors</li> <li>• Proper configuration and tuning of control loops so that it is fully functional and the experiments including all 4 process parameters can be conducted.</li> <li>• To be brought back into fully working condition</li> <li>• Minimum 3 years warranty</li> <li>• Additional 2 years AMC</li> </ul>
2	PLC based Oil and Water Separator	<ul style="list-style-type: none"> <li>• Cleaning and refurbishing of Oil and water tanks.</li> <li>• Recalibration of PLC system</li> <li>• To be brought back into fully working condition</li> <li>• Minimum 3 years warranty</li> <li>• Additional 2 years AMC</li> </ul>

**Shifting, Repair & Servicing of Electrical & Electronics LABequipments as below:**

Sl. No.	Name of the Equipment (Qty. One each)	Current Location
1	D.C. Integrated machine Trainer	Equipment on 3 <sup>rd</sup> floor of MERI Building
2	Marine Main Switch Board trainer	
3	Measuring Instruments Trainer	
4	Single Phase motor trainer	
5	Three Phase motor trainer	
6	Universal single phase transformer trainer	
7	Pneumatic circuit trainer with compressor	
8	Pneumatic PI controller trainer	Equipment on 7 <sup>th</sup> floor of MERI building
9	Control valve characteristic measurement trainer	
10	Oil Mist Detector trainer	

Sl. No.	Description of Furniture	Current Location
1	Lab tables (including stored of small electrical equipment inside) – 5 Nos.	Furniture on 3 <sup>rd</sup> floor of MERI Building
2	Cupboards with materials/files : Big 3 Nos., Small 2 Nos.	
3	Office table -1 Nos.	
4	Chairs- 5 Nos.	

- 12.8.1. The deputed service engineer/technician may inspect the laboratory equipment during the specified period (on working days), between specified time with prior intimation to our designated contact person.
- 12.8.2. The report should include the present status of the items to be serviced, repaired/up-graded with necessary spare parts (required if any).
- 12.8.3. The items which are non- functional and beyond economic repair should be certified with the necessary justification to enable the IMU MPC to replace the same with a new one.
- 12.8.4. In case of the replacement of old damaged/ non-working instruments/apparatus/ machines are required, the agency may suggest upgraded/advanced certified new machines available with the authorized suppliers/original manufacturers.
- 12.8.5. The Tenders must be submitted along with the inspection report, failing to which it will be treated as the Tender is cancelled.
- 12.8.6. The duration of service period is 30 working days from the issue of work order.
- 12.8.7. The warranty of the working of laboratory/ workshop equipment/ machines should be at least of three year after the servicing of the same plus two year AMC.
- 12.8.8. The completion certificate with the confirmation of respective laboratory In-charges has to be submitted along with the bill.
- 12.8.9. Dismantling (if required), Loading, Shifting, Unloading, Reassembly(if required), wiring and provision of Electrical supply to all equipment and Reinstallation of Laboratory Equipment and other materials of the Electrical laboratories from "MERI 3<sup>rd</sup> and 7<sup>th</sup> Floor" to new locations at "LBS NEW HOSTEL BUILDING" including furniture.
- 12.8.10. Experienced Labours as required to handle the sensitive laboratory equipment.
- 12.8.11. Shifting of the Laboratory Equipment, related furniture, files of the Electrical Laboratory.
- 12.8.12. The necessary Fork Lift/Lifting Crane, Lifting Tackles, Tools, Wire Rope, Tripod, Sling of Suitable capacities and other equipment to carry out this work shall be arranged by the Contractor/Vendor. No such equipment/machinery will be provided/supplied by the institute.
- 12.8.13. The Contractor/Vendor shall arrange for handling and transportation of items/components from own store to the site as per the requirement of the shifting process.
- 12.8.14. It is recommended that the Laboratory Equipment/Goods to be supported by Cushioning sheets of suitable material, Thermocol sheets, air bubble wrapping material; so that goods can easily overcome jerks while Dismantling, Loading, Shifting, Unloading, Reassembly and Reinstallation of Laboratory Equipment and other materials of the Electrical laboratory and are delivered to the destination without scratch, major damage, breakage etc.
- 12.8.15. Place the equipment in position at designated location as directed by representative of IMU MPC.
- 12.8.16. Make the wiring and provide suitable Electrical supply points s(single phase and 3 phase) for all major equipment at designated locations.
- 12.8.17. Install and commission all the major equipment.
- 12.8.18. Servicing of all the major equipment with replacement of faulty components to bring these to fully working condition.

**13. Comprehensive Onsite warranty (for both section A & B):**

- 13.1. A comprehensive onsite warranty for the supplied equipment shall be provided by the supplier for a minimum of **Three year** from the date of final acceptance of the equipment by IMU. The supplier will be notified of any defect or claim arising under this warranty and the warranty support shall be provided at site of IMU Campuses.
- 13.2. If the supplier having been notified fails to remedy the defect immediately as per 14.2, IMU may proceed to take such remedial action as may be necessary at the supplier's expense. The period that the equipment is out of commission / operation as a result of supplier's failure to remedy the defects notified shall result in extension of the warranty period correspondingly and imposition of penalty (Rs.2,000/- (Rupees Two Thousand only) per instance which will be adjusted from the Security Deposit or any other dues to the supplier).

**14. Comprehensive On-site AMC (for both section A & B) :**

- 14.1. Comprehensive maintenance for **Two years** is to commence immediately after the expiry of the comprehensive Three years warranty period for items mentioned in "Section – A" and to commence after successful repairs, service & shifting of items mentioned in "Section – B".
- 14.2. The supplier shall provide necessary comprehensive preventive and corrective maintenance on site i.e., by sending the engineer to the IMU Campuses for attending the maintenance requirements of the supplied equipment. In case of intimation of breakdown, the successful bidder should respond within 48 hours of reporting during the period of AMC. All spares which need replacement during the period of onsite maintenance are to be replaced without any additional cost. The conditions specified for warranty will be applied by during AMC period and vice-versa.
- 14.3. In addition to above, support should also be available by phone, e-mail to solve the problem as soon as possible during the period of Warranty and Annual Maintenance Contract. He shall have facilities with sufficient service engineers trained to provide support services. The Bidder shall also have sufficient spares on hand for providing the uptime as indicated in this tender.

**TECHNICAL SPECIFICATION AND COMPLIANCE MATRIX of "SECTION A"**

Sl. No.	Name of the Equipment	Qty	Specifications	Compliance to Specification YES/NO
1	Digital Oscilloscope	01 No.	• Brand New	
			• Bandwidth: 100 MHz	
			• No. of Channels : 2	
			• Sampling Rate : 1 Gsa/Sec	
			• Vertical Resolution : 8 bits	
			• Memory Depth :2 Mpts	
			• Acquisition Mode: Normal/Average/Peak detect	
			• Max Input Voltage : 400 V	
			• Input Impedance: 1 MΩ	
			• Accessories: 2 probes, Power cord	
			• User Manual	
			• Minimum 3years warranty	
• Additional 2 years of AMC				
2	Digital Multimeter	03 Nos.	• Brand New	
			• DC voltage :upto 600V	
			• AC voltage :upto 600V	
			• DC current: upto 10A	
			• AC current: upto 10A	
			• Resistance :upto 10MΩ	
			• Resolution : 3 ½ digits (2000 steps)	
			• DC V Accuracy : +/-0.5%	
			• Range selection: Multi range	
			• Diode test, continuity test features	
			• Data hold, Auto Power Off	
			• Accessories :Probes	
• User manual				
• Minimum 3 years warranty				
3	8085 Microprocessor trainer kit	04 Nos.	• Brand New	
			• ROM: 8K	
			• RAM: 8K	
			• Peripherals :8255 port, 8253 timer	
			• Onboard DAC, ADC	
			• Battery backup for RAM,	
			• 20x2 LCD display	
			• Accessories : Power cord	
			• User manual	
• Minimum 3 years Warranty				

			<ul style="list-style-type: none"> <li>• Additional 2 years AMC</li> </ul>	
4	8051 Microcontroller kit	04 Nos.	<ul style="list-style-type: none"> <li>• Brand New</li> <li>• Built-in power supply</li> <li>• Programmer support</li> <li>• PC interface</li> <li>• On board key pad</li> <li>• LCD display</li> <li>• Accessories : Power cord, interconnection cables</li> <li>• User manual</li> <li>• Minimum 3 years Warranty</li> <li>• Additional 2 years AMC</li> </ul>	
5	Air Circuit Breaker Trainer with Power Supply & Controls	01 No.	<ul style="list-style-type: none"> <li>• Brand New</li> <li>• Marine type ACB Trainer</li> <li>• ACB to EDO, with electronic trip protection, UV, remote ON/OFF facilities</li> <li>• Standalone panel with necessary metering &amp; signal generation for creating alarms and trips</li> <li>• Metering and indications are required by Marine Class to be provided</li> <li>• Marine type approved components to be used</li> <li>• Interface for monitoring parameters / status on remote PC to be provided</li> <li>• Should include User manuals, cables/tubings</li> <li>• Minimum 3 years warranty</li> <li>• Additional 2 years AMC</li> </ul>	

### COMPLIANCE MATRIX OF "SECTION B"

Sl. No.	Name of the Equipment	Defects	Compliance to Specification YES/NO
1	Multi Process Control Trainer	<ul style="list-style-type: none"> <li>• Faulty components to be repaired/replaced – Keypad , display, motor, sensors</li> <li>• Proper configuration and tuning of control loops so that it is fully functional and the experiments including all 4 process parameters can be conducted.</li> <li>• To be brought back into fully working condition</li> <li>• Minimum 3 year warranty</li> <li>• Additional 2 years AMC</li> </ul>	
2	PLC based Oil and Water Separator	<ul style="list-style-type: none"> <li>• Cleaning and refurbishing of Oil and water tanks.</li> <li>• Recalibration of PLC system</li> <li>• To be brought back into fully working condition</li> <li>• Minimum 3 year warranty</li> <li>• Additional 2 years AMC</li> </ul>	

Sl. No.	Name of the Equipment	Shifting, Service & repairs	Compliance to Specification YES/NO
1	D.C. Integrated machine Trainer	Dismantling (if required), Loading, Shifting, Unloading, Reassembly(if required), wiring and provision of Electrical supply to all equipment and Reinstallation of Laboratory Equipment and other materials of the Electrical laboratories from "MERI 3 <sup>rd</sup> and 7 <sup>th</sup> Floor" to new locations at "LBS NEW HOSTEL BUILDING" including furniture.	
2	Marine Main Switch Board trainer		
3	Measuring Instruments Trainer		
4	Single Phase motor trainer		
5	Three Phase motor trainer		
6	Universal single phase transformer trainer		
7	Pneumatic circuit trainer with compressor		
8	Pneumatic PI controller trainer		
9	Control valve characteristic measurement trainer		
10	Oil Mist Detector trainer		

**FORM OF TENDER**

**NOTE:** This Memorandum forms part of the Tender and this should be duly filled in, signed & sealed and enclosed along with the Tender.

To  
THE DIRECTOR,  
INDIAN MARITIME UNIVERSITY  
MUMBAI PORT CAMPUS  
HAY BUNDER ROAD  
MUMBAI – 400 033.

Sir,

Being duly authorized to represent and act on behalf of .....  
hereinafter called "the tenderer" and having visited the sites and examined Terms and Conditions of Contract, Instructions to the Tenderers, Schedules and Bill of Quantities for the Menu of Tender for "UPGRADATION OF ELECTRICAL AND ELECTRONICS LABORATORY at IMU-MPC" ; and

1. I / We offer to execute the work in conformity with the terms and Conditions of this tender/contract.
2. I / We undertake that, if our Tender is accepted, to do the work for the periods specified in this Schedule.
3. If my / our tender is accepted we will furnish a Security Deposit within 10 days of receipt of work order through a Demand Draft or Bankers Cheque from Nationalized Bank or a Scheduled Bank in India approved by Government of India for a sum equivalent to 10% of the value of contract of any Nationalized Bank or Scheduled Bank in India as Security deposit for the due performance of the Contract.
4. I / We agree to abide by this Tender for a period of 120 days from the date fixed for receiving the same or such further period as may be mutually agreed upon and it shall remain binding upon us and may be accepted at any time before the expiration of that period should we fail to abide by our Tenders during the above said period of 120 days or such extended period as mutually agreed upon, the IMU shall be at liberty to forfeit the Earnest Money deposited by us.
5. Unless and until a formal agreement is prepared and executed, this Tender together with your written acceptance thereof, shall constitute a binding Contract between us.
6. (i) We understand that the IMU reserves the right to,
  - a. Amend the scope of tender and value of contract under this work at any time
  - b. reject or accept any tender including the lowest, cancel the tender process and reject all tender without assigning any reason.(ii) We agree that the IMU will not be liable for any such action and will be under no obligation to inform the tenderer of the grounds for such action as rejection, modification, delays, cancellation etc.
7. If our Tender is accepted as a whole or as individual components, we understand that we are held fully responsible for the due performance of the Contract.

We have furnished Earnest Money in the form of Demand Draft issued by



.....payable at Mumbai in favour of the INDIAN MARITIME UNIVERSITY, Mumbai Port Campus Mumbai- 400033 for an amount of Rs..... (Rupees.....). If our tender is not accepted, the Earnest Money shall be returned to us on our application within period as specified in the tender for the return of such EMD amount. If our Tender is accepted the Earnest Money shall be adjusted against the Security Deposit at 10% of the Contract value, or refunded on production of a Security deposit as contemplated in the relevant clause for an amount equivalent to 10% of the contract value with the good and sufficient services as may be required for the faithful performance and proper fulfillment of the Contract.

8. We agree to execute the work referred to in the Tender Documents upon the Terms and Conditions contained or referred to therein and to carry out such deviations as may be ordered.

SIGNATURE..... FOR AND ON BEHALF OF.....

..... DATE .....

**Witnesses:**

1. Signature.....

2. Signature.....

Name.....

Name.....

Address..... Address.....

**CONTENTS OF QUALIFICATIONFORMAT**

	<b>Description</b>
Form I	Letter of application
Form II	Experience for executing similar works
Form III	Annual Turnover Data
Form IV	Declaration regarding Blacklisting/Debarring

**Contents of QualificationFormat**

**INDIAN MARITIME UNIVERSITY**

**TENDER FOR PROVIDING "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY" AT IMU MUMBAI PORT CAMPUS**

**Covering Letter to Accompany Technical Bid**

*[On the Letter head of the Bidder and to be put in a separate sealed cover along with DD for EMD of Rs...../-]*

**FORM – I**

**FROM**

**Name & Address of the Bidder**

**TO**

THE DIRECTOR,  
Indian Maritime University,  
Mumbai Port Campus  
Hay Bunder Road,  
Mumbai – 400033.

Sir,

1. Being duly authorized to represent and act on behalf of ..... hereinafter called "The tenderer" and having reviewed and fully understood all the qualifying information provided, the undersigned hereby applies to be qualified under Cover – I for the **Tenderforproviding "UPGRADATION OF ELECTRICAL AND ELECTRONICS LABORATORY" AT IMU MUMBAI PORT CAMPUS.**
2. Attached to this letter are copies of original documentsdefining
  - i) The tenderer's legalstatus
  - ii) The Principal place of businessand
  - iii) The place of incorporation or the place ofRegistration
3. (i) This tender (Under Cover-I and Cover-II) is made in the full understanding that contents of Cover-I will be subject to verification of all information submitted therein along with the tender and authorize IMU or its authorized representative to verify the statements, documents and information submitted and to clarify the financial and technical aspects of thisapplication.

- (ii) We understand that the Employer reserves the right to,
- Amend the scope of tender and value of contract under this work any time
  - reject or accept any tender including the lowest, cancel the tender process and reject all tender without assigning any reason.
- (iii) We agree that the Employer will not be liable for any such action and will be under no obligation to inform the tenderer of the grounds for such action.
- 4) We certify that all the particulars furnished in our Bid are true and correct and based on documentary evidence. We understand that if any of the particulars is found to be false or misleading, IMU has the right to summarily reject our bid at any stage and that our company is liable to be blacklisted/debarred by IMU for at least 3 years.
- 5) In the event of our being awarded the work, we undertake to remit the Security Deposit and execute the Contract with IMU within 07 (Seven) days from the date of issue of the Purchase Order failing which the Work Order may be cancelled and the EMD forfeited.
- 6) Our Price Bid is exclusive of GST and the price quoted shall be firm till the execution of the contract and for the extended period if any.

DATE: TENDERER'S SIGNATURE WITH STAMP

**INDIAN MARITIME UNIVERSITY**

**TENDER FOR PROVIDING "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY" AT IMU MUMBAI PORT CAMPUS**

**FORM – II**

**Experience on Contract for similar works (executed  
during the last 2 years) as per clause 2.1 of Pre-  
Qualification Criteria**

Sl. No.	Name and address of the Institution & Name of contact person & Telephone No.	Period/ Date of contract	Date of commencemen t of contract	Date of completion of contract	Work Cost	Mode of Proof enclosed

Note :Each item / contract listed under the above columns shall be supported by documentary evidence / Performance certificate issued by the competent authority in original or with a Xerox copy duly notarized or self attested, subject to production of the originals when demanded.

DATE:

TENDERER'S SIGNATURE WITH STAMP

**INDIAN MARITIME UNIVERSITY**

**TENDER FOR PROVIDING "UPGRADATION OF ELECTRICAL AND ELECTRONICS LABORATORY" AT IMU MUMBAI PORT CAMPUS**

Qualification Questionnaire

**FORM – III**

Annual turnover data form Audited Balance sheet and Profit and loss Account of the firm for the last two financial years shall be enclosed.

The information supplied should be the annual turnover of the tenderer interms of amount billed for each financial year of work in progress or completed.

Annual turnover data for the last 3 financial years is to be provided in the following format.

SL.NO	FINANCIAL YEAR	ANNUAL TURNOVER
1	2017-18	
2	2018-19	
3	2019-20	

(The latest Income Tax Returns, duly attested by the Tenderer's Chartered Accountant, shall be attached)

DATE:

TENDERER'S SIGNATURE WITHSTAMP

**INDIAN MARITIME UNIVERSITY**

**TENDER FOR PROVIDING "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY" AT IMU MUMBAI PORT CAMPUS**

**FORM – IV**

**Declaration regarding Blacklisting/Debarring**

*(On company letter head)*

To  
The Campus Director  
Indian Maritime University,  
Mumbai Port Campus

**Sub.: Declaration regarding Blacklisting/Debarring for taking part in tender.**

Dear Sir,

I/We \_\_\_\_\_ Firm/Contractor/Manufacturer / Partner(s)/Authorized  
Distributor/agent of M/s. \_\_\_\_\_  
hereby declare that the firm/company namely M/s. \_\_\_\_\_ has not been blacklisted  
or debarred by Union / State Government/Autonomous organizations/universities from taking part in tenders in  
India.

There is no legal case presently against the Director or the firm and they have not been convicted by the court.

In case the above information found false I/we are fully aware that the tender/ contract will be rejected/cancelled  
by the Indian Maritime University, Mumbai Port Campus, and EMD/ Performance Security shall be forfeited.

In addition to the above, Indian Maritime University, Mumbai Port Campus shall not be responsible to pay the  
bills for any completed / partially completed work.

[Name ,Signature & Seal] for and on behalf of M/s. \_\_\_\_\_

**Note:** This letter of shall be on the letterhead of the company and shall be signed by a person  
competent and having the power of attorney to bind the company/firm.

**INDIAN MARITIME UNIVERSITY**

**TENDER FOR PROVIDING "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY" AT IMU MUMBAI PORT CAMPUS**

**FORM – V**

**FORMAT OF BID SECURITY DECLARATION**

I/We-----

----- hereby states and understand that, if I/We -----

-----

withdraw/modify our tender during the period of validity of the tender, The Indian Maritime University, Mumbai Port Campus would suspend the bidder from participation in any future tenders of Indian Maritime University for a period of Six (06) months.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Date

Capacity in which signed \_\_\_\_\_

Place

Seal of the firm to be affixed.



**MANDATE FORM  
(Account/s Information form)**

**REAL TIME GROSS SETTLEMENT (RTGS)/ NATIONAL ELECTRONIC TRANSFER (NEFT) / INTRA BANK ACCOUNT TRANSFER FACILITY FOR RECEIVING PAYMENTS FROM IMU.**

**A. DETAILS OF ACCOUNT HOLDER:**

NAME OF ACCOUNT HOLDERER / FIRM

COMPLETE CONTACT ADDRESS

MOBILE NUMBER / PH NO

E.MAIL:

PAN :

**B, BANK ACCOUNT DETAILS:**

**ACCOUNT NAME** (Name appearing in your Cheque Book)

**BRANCH NAME WITH COMPLETE ADDRESS,**

**TELEPHONE NO**

**BRANCH CODE**

**Note: Please attach a Cancelled Cheque along with the account information form.**

**COMPLETE BANK ACCOUNT NUMBER (Please note that the Bank Account must be in the name of the Firm as appeared in the bill. In case of other Beneficiaries (Non-vendor) the Account name must be in the name of Applicant)**

IFSC CODE

TYPE OF ACCOUNT (SB/CURRENT/CASH CREDIT)

MICR CODE OF BANK

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the IMU responsible.

( ..... )

Signature of Beneficiary

Date:

**Mandatory for Vendors/suppliers/Contractors etc., Payment:**

Certified that the particulars furnished above are correct as per our records.

(Bank's Stamp with Date & Place)

( ..... )

Signature of Bank Manager



**INDIAN MARITIME UNIVERSITY  
MUMBAI PORT CAMPUS**

**TENDER FOR "UPGRADATION OF ELECTRICAL AND ELECTRONICS  
LABORATORY"**

**at IMU Mumbai Port campus, Hay Bunder Road**

**TENDER NO – IMU-MPC/PUR/2020-21/Upgrade E & E Lab. /14**

**VOLUME –II**

**FINANCIAL BID**

[Bidders are advised to study the Tender Document (including all Sections, Schedules and Annexure etc.,) carefully. Submission of Tender shall deem to have been done after careful study and examination of the Tender Document with full understanding of its implications.]

All bidders are requested to visit IMU Mumbai Campus website :[www.imumumbaiport.ac.in](http://www.imumumbaiport.ac.in)&[www.imu.edu.in](http://www.imu.edu.in) for regular updates.

## **PRICE BID**

### **UPGRADATION OF ELECTRICAL AND ELECTRONICS LABORATORY**

*[On the Letter head of the Bidder and to be put in sealed cover]*

### **"SECTION A"**

#### **SUPPLY, INSTALLATION AND AMC OF ELECTRICAL AND ELECTRONICS LABORATORY EQUIPMENT**

(Amount in Rs.)

Sl. No.	Name of the Equipment	Make & Model	Qty. in Nos.	Price of the equipment	AMC Charges for 1 <sup>st</sup> year after Warrantee	AMC Charges for 2 <sup>nd</sup> year after Warrantee	Total
		1	2	3	4	5	6 = (3+4+5)
1	Digital Oscilloscope		01				
2	Digital Multimeter		03				
3	8085 Microprocessor trainer kit		04				
4	8051 Microcontroller kit		04				
5	Air Circuit Breaker Trainer with Power Supply & Controls		01				
	<b>Total:</b>						
(Total in _____ <b>WORD</b> )							
<b>The rates quoted above should be only the unit price (i.e. inclusive of basic price, transportation and any other charges) and exclusive of GST and any cess on GST.</b>							

**Date:**

**Stamp & Signature of Bidder**

**Place:**

## "SECTION B"

### REPAIRS, SERVICING, SHIFTING AND AMC OF ELECTRICAL AND ELECTRONICS LABORATORY EQUIPMENT

(Amount in Rs.)

Sl. No.	Name of the Equipment	Qty in Unit	Repairing and Servicing Charges	AMC Charges for 1 <sup>st</sup> year after Warrantee	AMC Charges for 2 <sup>nd</sup> year after Warrantee	Total
		1	2	3	4	5 = (2+3+4)
1	Multi Process Control Trainer	01				
2	PLC based Oil and Water Separator	01				
	<b>Total:</b>					
(Total in _____ <b>WORD</b> )						
<b>The rates quoted above should be only the unit price (i.e. inclusive of basic price, transportation and any other charges) and exclusive of GST and any cess on GST.</b>						

**Date:**

**Stamp & Signature of Bidder**

**Place:**

\_\_\_\_\_

Sl. No.	Name of the Equipment	Qty in Unit	Shifting, Repairing and Servicing Charges	AMC Charges for 1 <sup>st</sup> year after Warrantee	AMC Charges for 2 <sup>nd</sup> year after Warrantee	Total
		1	2	3	4	5 =(2+3+4)
1	D.C. Integrated machine Trainer	01				
2	Marine Main Switch Board trainer	01				
3	Measuring Instruments Trainer	01				
4	Single Phase motor trainer	01				
5	Three Phase motor trainer	01				
6	Universal single phase transformer trainer	01				
7	Pneumatic circuit trainer with compressor	01				
8	Pneumatic PI controller trainer	01				
9	Control valve characteristic measurement trainer	01				
10	Oil Mist Detector trainer	01				
	<b>Total:</b>					
(Total in _____ <b>WORD</b> )						
<b>The rates quoted above should be only the unit price (i.e. inclusive of basic price, transportation and any other charges) and exclusive of GST and any cess on GST.</b>						
<b>Shifting Charges of furniture mentioned separately</b>						

**Date:**

**Place:**

**Stamp & Signature of Bidder**