



**TENDER FOR "UPGRADATION OF ELECTRICAL AND
ELECTRONICS LABORATORY"
AT INDIAN MARITIME UNIVERSITY, MUMBAI PORT CAMPUS
TENDER No: IMU-MPC/PUR/2020-21/Upgrade E&E Lab./14**

Issue Date: 02nd April, 2021

CORRIGENDUM – I

Following corrigendum is issued with respect to the "Upgradation of Electrical and Electronics Laboratory tender:

Page No. and Para No.	Existing Clause	Clarification/ New Clause				
Page No. 3, Para No.2 (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; OR	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. 5,60,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute; OR				
	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; OR	b) Two similar works during last two years each costing not less than 50% of the present estimated cost i.e. Rs. 7,50,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute; OR				
	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.	c) One similar work during last two years each costing not less than 80% of the present estimated cost i.e. Rs.11,20,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute.				
Page No. 7, Para No.12, "Section A" (12.1) -	Sr. No.	Name of Equipment	Qty	Sr. No.	Name of Equipment	Qty
	1	Digital Oscilloscope	01	1	Digital Oscilloscope	01
	2	Digital Multimeter	03	2	Digital Multimeter	03
	3	8085 Microprocessor trainer kit	04	3	8085 Microprocessor trainer kit	04
	4	8051 Microcontroller kit	04	4	8051 Microcontroller kit	04
	5	Air Circuit Breaker Trainer with Power Supply & Controls	01	5	Oil Mist Detector	01
	6			Air Circuit Breaker Trainer with Power Supply & Controls	01	
7	Function Generator (Digital)			01		
Page No. 13, Annexure –I Section A	Revised Technical Specification and Compliance Matrix Of "Section A" enclosed with this Corrigendum.					
Page No. 27	Revised Price Bid of "Section A" enclosed with this Corrigendum.					

Revised Technical Specification and Compliance Matrix**"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	
			• Additional 2 years AMC	
4	8051 Microcontroller kit	04 Nos.	• Brand New	
			• Built-in power supply	
			• Programmer support	
			• PC interface	
			• On board key pad	
			• LCD display	
			• Accessories : Power cord, interconnection cables	
			• User manual	
			• Minimum 3 years Warranty	
			• Additional 2 years AMC	
5	Oil Mist Detector	01 No.	• Brand New	
			• Marine type instrument suitable for Diesel engines	
			• For training purpose	
			• Should be a current model commonly used in ships from reputed manufacturers - Schaller VN115/87, Graviner Mark 6 , Daihatsu MD-9M or equivalent	
			• Using latest technology	
			• Should be complete with 1 Sensor unit to demonstrate the working by simulating oil mist externally	
			• Should include User manuals, cables/tubings	
			• Minimum 3 years warranty	
• Additional 2 years AMC				
• Should include Installation in the lab				

6	Air Circuit Breaker Trainer with Power Supply & Controls	01 No.	<ul style="list-style-type: none"> • Brand New 	
			<ul style="list-style-type: none"> • Marine type ACB Trainer 	
			<ul style="list-style-type: none"> • ACB to EDO, with electronic trip protection, UV, remote ON/OFF facilities 	
			<ul style="list-style-type: none"> • Standalone panel with necessary metering & signal generation for creating alarms and trips 	
			<ul style="list-style-type: none"> • Metering and indications are required by Marine Class to be provided 	
			<ul style="list-style-type: none"> • Marine type approved components to be used 	
			<ul style="list-style-type: none"> • Interface for monitoring parameters / status on remote PC to be provided 	
			<ul style="list-style-type: none"> • Should include User manuals, cables/tubings 	
			<ul style="list-style-type: none"> • Minimum 3 years warranty 	
			<ul style="list-style-type: none"> • Additional 2 years AMC 	
7	Function Generator (Digital)	01 No.	<ul style="list-style-type: none"> • Brand New 	
			<ul style="list-style-type: none"> • Bandwidth upto 3 MHz 	
			<ul style="list-style-type: none"> • Sine, square and triangular waveforms 	
			<ul style="list-style-type: none"> • 20 V peak to peak 	
			<ul style="list-style-type: none"> • Should include User manuals, cables 	
			<ul style="list-style-type: none"> • Minimum 3 years warranty 	
			<ul style="list-style-type: none"> • Additional 2 years AMC 	

REVISED 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 st year after Warrantee	AMC Charges for 2 nd 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	Oil Mist Detector		01				
6	Air Circuit Breaker Trainer with Power Supply & Controls		01				
7	Function Generator (Digital)		01				
	Total:						
	(Total in _____ WORD)						
	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.						

Date:
Place:

Stamp & Signature of Bidder