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 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 | | | | 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. 7,50,000/- in Central Government/ State Govt. / PSUs / Private Organizations/ Marine Training Institute; OR | | | |
| | each of preser | e similar work during last two yesting not less than 80% of the estimated cost i.e. Rs. 7,20, al Government/ State Govt. / Fe Organizations/ Marine Traininte. | 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. | | | | | |
| | 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 | | |
| Page No. 7, | 3 | 8085 Microprocessor trainer kit | 04 | 3 | 8085 Microprocessor trainer kit | 04 | | |
| Para No.12, | 4 | 8051 Microcontroller kit | 04 | 4 | 8051 Microcontroller kit | 04 | | |
| "Section A" (12.1) - | | | 01 | 5 | Oil Mist Detector | 01 | | |
| , | 5 | Air Circuit Breaker Trainer with Power Supply & Controls | | 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. | | | | | | | |

Annexure-I

Revised Technical Specification and Compliance Matrix "SECTION A"

| Sl. No. | Name of the Equipment | Qty | Specifications | Compliance to Specification YES/NO |
|---------|--------------------------|------------|--|--|
| | | | Brand New | |
| | | 01 No. | Bandwidth: 100 MHz | |
| | | | No. of Channels : 2 | |
| | | | Sampling Rate : 1 Gsa/Sec | |
| | | | Vertical Resolution : 8 bits | |
| | | | Memory Depth :2 Mpts | |
| 1 | Digital | | Acquisition Mode: Normal/Average/Peak detect | |
| | Oscilloscope | | Max Input Voltage : 400 V | |
| | | | Input Impedance: 1 MΩ | |
| | | | Accessories: 2 probes, Power cord | |
| | | | User Manual | |
| | | | Minimum 3years warranty | |
| | | | Additional 2 years of AMC | |
| | 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 | |
| 2 | | | 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 | |

| | | | Brand New | |
|---|---|------------|--|--|
| 3 | 8085 Microprocessor trainer kit | 04 Nos. | | |
| | | | • 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 | |
| | | | Brand New | |
| | | | Built-in power supply | |
| | | | Programmer support | |
| | 8051 Microcontroller kit Oil Mist Detector | 04 Nos. | PC interface | |
| | | | On board key pad | |
| 4 | | | LCD display | |
| | | | Accessories : Power cord, interconnection cables | |
| | | | User manual | |
| | | | Minimum 3 years Warranty | |
| | | | Additional 2 years AMC | |
| | | | 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- | |
| 5 | | | 9M or equivalent | |
| | | | Using latest technology | |
| | | | Should be complete with 1 Sensor unitto | |
| | | | 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. | Brand New Marine type ACB Trainer ACB to EDO, with electronic trip protection, UV, remote ON/OFF facilities Standalone panel with necessary metering & signal generation for creating alarms and trips Metering and indications are required by Marine Class to be provided Marine type approved components to be used Interface for monitoring parameters / status on remote PC to be provided Should include User manuals, cables/tubings Minimum 3 years warranty Additional 2 years AMC Should include Installation in the lab | |
|---|--|--------|--|--|
| 7 | Function Generator (Digital) | 01 No. | Brand New Bandwidth upto 3 MHz Sine, square and triangular waveforms 20 V peak to peak Should include User manuals, cables Minimum 3 years warranty 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 LABORATORYEQUIPMENT

(Amount in Rs.)

| SI. 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 inWORD) | | | | | | |
| | 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. | | | | | charges) and | |

| Date: | Stamp & Signature of Bidde |
|--------|----------------------------|
| Place: | |