

## INVITATION FOR QUOTATION

TEQIP-III/2019/mmug/Shopping/51

22-Feb-2019

To,

### Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Bomb Calorimeter	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
2	Boyle-Marriott's Apparatus	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
3	Equipments for pressure measurement and calibration	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
4	Equipments for specific heat capacity determination	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
5	Equipments for study of volume ratio for isothermal process	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	

6	Equipments for Vapor Pressure of Liquids	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
7	Joule-Thomson Coefficient Apparatus	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
8	Pressure Hypsometer	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
9	Refrigeration cycle unit	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	
10	Throttling Calorimeter	1	30	MMM UNIVERSITY OF TECHNOLOGY GORAKHPUR	

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
  - 3.1 The contract shall be for the full quantity as described above.
  - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
  - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
  - 3.4 Applicable taxes shall be quoted separately for all items.
  - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - 3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.
6. Evaluation of Quotations,  
The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
  - 6.1 are properly signed ; and
  - 6.2 confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. Award of contract:  
The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
  - 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
  - 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
9. Payment shall be made in Indian Rupees as follows:  
**Delivery and Installation - 80% of total cost**  
**Satisfactory Acceptance - 20% of total cost**
10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **15:00** hours on 20-May-2019 .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) Demonstration and Training of all Equipment is necessary at our Site.

14. Testing/Installation Clause (if any) Successful installation & Testing of equipment is must.
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Certificates of manufactures/authorized dealers/agents must be attached with the quotation.
17. Copy/List of purchase orders of similar equipment/goods supplied to other reputed organizations should be attached with the quotations in support of quoted rates.
18. Successful bidders kindly Provide Performance security @ 10% of the goods cost (where total package cost exceed Rs. 5 lacs ), valid for 1 Year
19. Sealed quotation to be submitted/ delivered at the address mentioned below,  

**The Registrar, M. M. M. University of Technology, Deoria Road, Gorakhpur – 273010**
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

**Annexure I**

Sr. No	Item Name	Specifications
1	Bomb Calorimeter	etermine calorific values of solid, liquid and gaseous fuels with accessories- Combustion Bomb: Halogen and acid resistant stabilized stainless steel, Resolution: 0.001 kcal/gm or better, Relative standard deviation: 0.1% or better, Measurement range: up to 40,000 J/gm , Crucible type: corrosion resistant alloy or quartz, Analysis time per sample: 15 to 30 minutes or lower, Power supply: 230 V, 50/60 Hz, Other accessories: O2 gas pressure regulator with filter cartridge, O2 gas cylinder, Sample crucibles (quartz preferred or corrosion resistant alloy steel, 2 nos), Ignition fuse wire(5 nos), Bomb O-rings (5 nos), Calibration standard and instruction manual.

2	Boyle-Marriott's Apparatus	Complete Boyles Law Apparatus, Base material- metallic, meter stick, wooden board, Pressure gauge-0-60 psi, volume-50- 100 cm <sup>3</sup> .
3	Equipments for pressure measurement and calibration	Bench-top unit mounted on an anodized structure and panel of painted steel. Main metallic elements-stainless steel. Dead-weight calibrator- Diameter of the piston: 15-20 mm. Area of the piston: 2-3 cm <sup>2</sup> . Weight of the piston: 0.4-0.6 Kg. Set of weights: 0.5 Kg., 1 Kg., 2.5 Kg., 5 Kg. Bourdon type manometers, dead weight calibrator, range: 0- 2.5 Bar (250kN/m <sup>2</sup> ), Electronic pressure sensor: 0-2.5 Bar. Vessel, standard material. An electronic console with two digital displays. Electronic console: Metallic box. Pressure sensor connection. Digital display for the pressure sensor (in kN/m <sup>2</sup> ). Data acquiring system. Accessories- Cables and supporting accessories, for normal operation. Manuals.
4	Equipments for specific heat capacity determination	Determine the heat capacity ratio at constant volume and constant pressure with accessories-Main Unit, pressure and temperature measurement unit, diffused Silicon; range: 0-10 kPa; sensitivity: 20 mV/kPa, sensitivity 1 $\mu$ A/degree Celsius, Pressure Sensor (1 no), Plastic Tube for Temperature Sensor(1 no), Connection Wire (2 nos), Rubber Air Ball (1 no), Rubber Tube (1 no), Glass Bottle (1 no), Manual (1 no)
5	Equipments for study of volume ratio for isothermal process	Determine the ratio of volumes using isothermal process with accessories- Main unit with Pressure Transmitter, Pressure Relief Valve, Temperature Sensor, Big Glass, Small Glass, Vacuum Pump, Electrode, manual and other required accessories.
6	Equipments for Vapor Pressure of Liquids	Main unit, volume -1-2 L with jacketed and cooling arrangement, safety valve, digital temperature indicator- 0-200 $^{\circ}$ C, Digital Pressure gage-0-2.5 bar, steam release valve and arrangement, Instruction manual.
7	Joule-Thomson Coefficient Apparatus	Frame with pressure gauge and a spiral of copper capillary tube, Plastic-coated glass tube with a throttle body and 2 measurement points for Pt-100- temperature sensor. Pressure range 0-0.1 MPa, Division 5 kPa, Tube length/ diameter(mm): 200-300, Copper coil

		35-40 m / 100- 150 coils, 0.75-1.25 m pressure hose, Hose clamps
8	Pressure Hypsometer	Temperature measurement and Calibration with accessories - Hypsometer: 1 litre, Water bath: 4 litres, Barometer: (to determine absolute pressure) Stop clock: (when not using the optional interface device/ educational software) DC calibrator/thermocouple simulator: (to demonstrate calibration of instrumentation) Resistance box/PRT simulator: (to demonstrate calibration of instrumentation/lead errors)
9	Refrigeration cycle unit	Determine the coefficient of performance and other parameters of a refrigerator (Refrigeration cycle unit) with accessories - Main unit- digital temperature indicator allows measurement of all system temperatures to 0.1° C, Water: 5-8 litre/minute at a minimum of 20-35m head, Digital Wattmeter, Accessories and spares for 2 years normal operation and Instruction manual.
10	Throttling Calorimeter	Throttling Calorimeter with accessories- Separating Chamber: Compatible capacity made of Stainless Steel insulated with Ceramic wool with water level indicator, Heat Exchanger: For condensing steam, Steam Generator : Compatible capacity with digital temperature controller to control the temperature inside the steam generator, Differential pressure : By manometer measurement, Steam pressure measurement: By Pressure gauge, instruction manual

**FORMAT FOR QUOTATION SUBMISSION**

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To:

\_\_\_\_\_  
\_\_\_\_\_

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No: \_\_\_\_\_