INVITATION FOR QUOTATION

TEQIP-III/2018/mecj/Shopping/42 **22-Nov-2018**

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	Vapour compression Refrigeration Testing Rig	1	45	Department of Mechanical Engineering, MBM Engineering College, Residency Road, Ratanada, Jodhpur, Rajasthan, 342011	Installation & commissioning including all civil and electrical works.

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 - 0% of total cost

   Satisfactory Acceptance - 100% 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 **11:00** hours on **15-Jan-2019 .**
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Operation & maintenance training**
14. Testing/Installation Clause (if any) **Experiments are to be demonstrated at college site and results should be matched with sample calculation provided.**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,

    TEQIP-III Office, Department of Computer Science & Engineering, M.B.M. Engineering College, Residency Road, Ratanada, Jodhpur.
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	Vapour compression Refrigeration Testing Rig	"Experimental Capabilities • Calculation of actual COP by measuring power consumption by compressor and heater. • Calculation of theoretical COP by measuring pressure and temperatures at various points in the cycle and plotting pressure enthalpy diagram. DETAILED TECHNICAL SPECIFICATIONS Hermitically sealed compressor Capacity: 3700 BTU/hr, Emerson Copeland make (NEW, Purchase Bill with date and Number should be provided at the time of inspection), Air cooled condenser: compatible Capacity, (exact dimensions of the condenser to be supplied should be provided by the vendor in their quotation otherwise quotation will be liable for rejection), Condenser cooling fan: Compatible Capacity, Make : AUE, Condenser fan : Axial flow type, Fan blade : 4-6 leaf (aluminium),Capillary and thermostatic expansion valve as Expansion Devices: 1 No. each, Evaporator: Shell and coil type, The evaporator should be calorimeter type. The inner and outer chamber of the calorimeter should be made of stainless steel sheet. It should be thermally insulated with ceramic wool/P.U.F. Immersion type cooling coil should be provided inside the calorimeter chamber. Dip type electric immersion heater of suitable rating should be provided to vary the temperature of water for balancing the refrigeration effect. The size of the calorimeter should be of compatible capacity (exact dimensions of the calorimeter to be supplied should be provided by the vendor in their quotation otherwise quotation will be liable for rejection). Stirring motor should be provided to stirr the water in the calorimeter. Power to the heater should be regulated using dimmerstat. refrigerant: 134a, Pressure gauge : 1 NO. Range: 0 to 300 Psi, compound gauge : 1 NO Range : -30 " Hg to +150 psi , (Make and exact model no. of the pressure gauges should be provided by the vendor in their quotations otherwise quotation will be liable for rejection) hand shut off valve Size : 1/4 "",Receiver and sight glass in liquid line, filter drier : 1/4"", Type : DM 50, Hp cutout: 1 NO. Range: 0 to 300 psi, Make and model :

		Danfoss/KPT15, Energy Meter : 2 no. (One each for compressor and immersion heater),Range 0 - 5 Amps./5-10 amp. as suitable, Type : Rotary and Analog (Make and exact model no. of the energy meters should be provided by the vendors in their quotations otherwise quotation will be liable for rejection), Measuring Instruments - Digital Temperature Indicator : (-30) to 199.9 Degree Celsius, with PT-100 sensor- 6 no. and Temperature or Switch- 6 no., (Make and exact model no. of the temperature indicator should be provided by the vendor in their quotations other wise quotation are liable for rejection) Refrigerant Rotameter 134a : 1 No., Make : Eureka, Range : compatible, Control Panel should comprises of Digital Voltmeter : 0-500 V, two Digital Ammeters : 0-19.99 Amp , mains indicator. Standard make On-off switch for condenser motor, solenoid valve, compressor, dimmerstat, heater etc. should be provided. The whole set-up should be fixed on well-designed rigid iron structure painted with industrial PU Paint. An ENGLISH instruction manual consisting of experimental procedures, sample calculations, block diagram and circuit diagrams etc. should be provided along with the Apparatus. Installation and commissioning will be in scope of supplier. Experiments are to be demonstrated at college site and results should be matched with sample calculation provided.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

_____

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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)
Total Cost							

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: _____