



SHIVAJI UNIVERSITY, KOLHAPUR

Department of Technology

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A
Accredited By NAAC

INVITATION FOR QUOTATION

TEQIP-II/2016/MH1G05/Shopping/125

10-May-2016

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	CASCADE REFRIGERATION CYCLE TEST APPARATUS:-	1	45	Department of Technology Shivaji University Kolhapur	yes
2	ICE PLANT TEST APPARATUS	1	45	Department of Technology Shivaji University Kolhapur	yes
3	MECHANICAL HEAT PUMP APPARATUS	1	45	Department of Technology Shivaji University	yes

				Kolhapur	
4	REFRIGERATION CYCLE TEST APPARATUS:- (Hermetically Sealed Compressor	1	45	Department of Technology Shivaji University Kolhapur	yes
5	WINDOW AIR CONDITIONING CYCLE TEST APPARATUS	1	45	Department of Technology Shivaji University Kolhapur	yes

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 II** 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 **45** 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 - 90% of total cost

Satisfactory Acceptance - 10% 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 **18:00** hours on **25-May-2016** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **yes**

14. Testing/Installation Clause (if any) **Yes**

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,
Department of Technology, Shivaji University Kolhapur Maharashtra

17. We look forward to receiving your quotation and thank you for your interest in this project.

Sd/-

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	CASCADE REFRIGERATION CYCLE TEST APPARATUS:-	<p>Compressor Unit : 1/2 & 1/3 Ton of refrigeration Hermetically sealed compressor of Emmelson Copland make suitable for 134a refrigerant. Cascade Condenser Unit : Sufficient length copper tube coil is merged in water Bath. This water bath is acts as condenser of one system and evaporator of anther system. Expansion Unit : i. Thermostatic expansion Valve.ii. Capillary expansion Tube</p> <p>Condenser Unit :Forced draft finned type copper coiled air cooled condenser. Evaporator Unit :Forced draft finned type copper coiled air cooled evaporator with fan motor. Control Panel Unit : i. Digital temperature Indicator with or switch with set of thermocouples are mounted on various locations. ii. Cam operated On-Off switch. iii. Voltmeter provided for voltage measurement. iv. Ammeter provided for load measurement. v. Energy meter for power measurement. vi. Auto Transformer for balance of cold effect vii. 0 to 350 PSI Pressure Gauge in delivery line. viii. -30 to 0 to 150 PSI compound Gauge mounted on suction line ix. Immersion Heater for balancing the cold effect. x. HP & LP safety cutout is used as a safety. Whole unit is fitted on strong and sturdy supporting stand with appreciate color combination powder coating.</p>
2	ICE PLANT TEST APPARATUS	<p>Compressor Unit : 1 Ton of refrigeration Hermetically sealed compressor of Emmelson Copland make suitable for 134a refrigerant. Condenser Unit :Forced draft finned type copper coiled air cooled condenser with fan motor. Expansion Unit : Thermostatic Expansion Valve Evaporator Unit : Twin wall with proper insulation Brine tank made by stainless steel having suitable capacity Agitator : Suitable agitation arrangement is provided Ice Can :Galvanized Conical Ice can (05 NOS) Control Panel Unit : i. Digital temperature Indicator with or switch with set of thermocouples are mounted on</p>

		<p>various locations. ii. Cam operated On-Off switch. iii. Voltmeter provided for voltage measurement. iv. Ammeter provided for load measurement. v. Energy meter for power measurement. vi. 0 to 350 PSI Pressure Gauge in delivery line. vii. -30 to 0 to 150 PSI compound Gauge mounted on suction line viii. HP & LP safety cutout is used as a safety Hygrometer : Used for brine density measurement Whole unit should be fitted on strong and sturdy supporting stand with appreciate color combination powder coating.</p>
3	MECHANICAL HEAT PUMP APPARATUS	<p>Compressor Unit : 1/2 Ton of refrigeration Hermetically sealed compressor of Emmelson Copland make suitable for 134a refrigerant. Condenser Unit : Sufficient length copper tube coil is merged in water condenser Bath. Continuous water flow required inside the condenser to maintained heating effect. Expansion Unit : Thermostatic Expansion Valve Evaporator Unit : Sufficient length copper tube coil is merged in water evaporator Bath. Kilver type heater placed inside the evaporator to maintained cooled effect. Flow Measurement Unit : Water Rotameter used for condenser & evaporator Control Panel Unit : i. Digital temperature Indicator with or switch with set of thermocouples are mounted on various locations. ii. Cam operated On-Off switch. iii. Voltmeter provided for voltage measurement. iv. Ammeter provided for load measurement. v. Energy meter for power measurement. vi. Auto Transformer for balance of cold effect vii. 0 to 350 PSI Pressure Gauge in delivery line. viii. -30 to 0 to 150 PSI compound Gauge mounted on suction line ix. Immersion Heater for balancing the cold effect. x. HP & LP safety cutout is used as a safety. Whole unit is fitted on strong and sturdy supporting stand with appreciate color combination powder coating.</p>
4	REFRIGERATION CYCLE TEST APPARATUS:- (Hermetically Sealed Compressor	<p>Compressor Unit : 1/3 Ton of refrigeration Hermetically sealed compressor of Emmelson Copland make suitable for 134a refrigerant. Condenser Unit : Forced draft finned type copper coiled air cooled condenser with fan motor. Expansion Unit : Two Types of expansion devices are provided i. Thermostatic Expansion Valve ii. Constant pressure Capillary</p>

		<p>Tube Evaporator Unit : Sufficient length copper tube coil is merged in water evaporator Bath. Kilver type heater placed inside the evaporator to maintained cooled effect. Control Panel Unit : i. Digital temperature Indicator with or switch with set of thermocouples are mounted on various locations. ii. Cam operated On-Off switch. iii. Voltmeter provided for voltage measurement. iv. Ammeter provided for load measurement. v. Energy meter for power measurement. vi. Auto Transformer for balance of cold effect vii. 0 to 350 PSI Pressure Gauge in delivery line. viii. -30 to 0 to 150 PSI compound Gauge mounted on suction line ix. Immersion Heater for balancing the cold effect. x. HP & LP safety cutout is used as a safety. xi. Electrically operated solenoid valve Whole unit should be fitted on strong and sturdy supporting stand with appreciate color combination powder coating.</p>
5	<p>WINDOW AIR CONDITIONING CYCLE TEST APPARATUS</p>	<p>Compressor Unit : 1 Ton of refrigeration Hermetically sealed compressor Condenser Unit : Forced draft finned type copper coiled air cooled condenser with fan motor. Expansion Unit : Capillary expansion device Evaporator Unit : Forced draft finned type copper coiled air cooled evaporator. Control Panel Unit : i. Digital temperature Indicator with or switch with set of thermocouples are mounted on various locations. ii. Cam operated On-Off switch. iii. Voltmeter provided for voltage measurement. iv. Ammeter provided for load measurement. v. Energy meter for power measurement. vi. 0 to 350 PSI Pressure Gauge in delivery line. vii. -30 to 0 to 150 PSI compound Gauge mounted on suction line. viii. HP & LP safety cutout is used as a safety. Whole unit should be fitted on strong and sturdy supporting stand with appreciate color combination powder coating.</p>

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)
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: _____