

INVITATION FOR QUOTATION

TEQIP-II/2016/CH1G02/Shopping/128

21-MARCH-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	Thermal conductivity of Insulating powder	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site
2	Thermal conductivity of insulating slab	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site
3	Thermal conductivity of metal rod	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg	Will be done at the site

				and Tech, Panjab University, Chandigarh	
4	Heat Transfer in natural convection	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site
5	Heat Transfer in forced convection	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site
6	Stefan Boltzmann's Apparatus	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site
7	COMPUTER CONTROLLED - HEAT TRANSFER THROUGH COMPOSITE WALL (With Data Logging Facility)	1	40 days	Dr SS Bhatnagar University Institute of Chemical Engg and Tech, Panjab University, Chandigarh	Will be done at the site

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 on the prescribed format enclosed at Annexure II.

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 - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **02:30** hours on **06-APRIL-2016**.

12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any): The bidder will provide training of the specified equipment at the time of installation without any additional cost.
14. Testing/Installation Clause (if any): The bidder will install the equipment's at the specified site without any additional cost.
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. **The vendor has to provide the detailed list of institutions/companies (in India) where he has supplied the items along with the list, year of installation and contact person details.**
17. **Each bidder will submit bid under two bid system as follow:-**

(a) First Envelop will contain:

- i. Technical bid confirming specification as per Annexure-I**
- ii. Information Brochure's/ Product catalogue clearly indicating the model quoted for**
- iii. Detailed list of institutions/companies (in India) where you have supplied these items along with the list and year of installation and contract person on details**

(b) Second Envelop will Contain:

Financial bid indicating items wise price for items mentioned in the technical bid on the format at Annexure-II.

The Vendor will submit the quotation in above envelopes duly sealed. On first Envelop the vendor will mention Technical bid and on second envelop the vendor will mention price bid. Both these sealed envelopes will be put in one closed envelope super scribing clearly the reference of NIQ and the date of opening of bid. The first envelope will be opened first After Evaluation of Technical bid, the second Envelop i.e. price bid will be opened only of those vendors who are meeting the technical specification.

18. Sealed quotation with proper **TEQIP quotation number** written on the envelope which is to be submitted/ delivered at the address mentioned below,

The Chairman,

TEQIP-II,

Dr.S.S.Bhatnagar University Institute of Chemical Engineering and Technology,

Panjab University,

Chandigarh – 160 014

19. 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	Thermal conductivity of Insulating powder	<p>Inner Sphere : Dia. - 100 mm. Outer Sphere : Dia. - 200 mm. Heater : Nichrome Wire. Heating control: Special arrangement to control heat input Control panel comprising of: Digital Voltmeter: 0-300 Volt. Digital Ammeter : 0-2 Amp. Variac : 0-230 V, 2 Amp, Temperature Measurement : By Temperature transmitter, Output 4-20 mA - 10 Nos. With standard make On off switch, Mains Indicator etc.</p>
2	Thermal conductivity of insulating slab	<p>Specimen Diameter : 180 mm (approx). Thickness : 12 mm (approx). Central Heater : Dia 100 mm, sandwiched between copper plates. Ring Guard Heater :Width 35 mm, sandwiched between copper rings. Cooling Chamber : Made of Aluminum for water circulation Heating control : Special arrangement to control heat input Insulation : Ceramic wool Control panel comprising of: Digital Voltmeter: 0-300 Volt. Digital Ammeter: 0-2 Amp Variac : 0-230 V, 2 Amp, (2 Nos.) (One each for central & ring guard heater) Temperature Measurement :By temperature transmitter, Output 4-20 mA -6Nos. With standard make On off switch, Mains Indicator etc. MS Cabinet to accommodate the slab assembly.</p>
3	Thermal conductivity of metal rod	<p>Metal Bar Material : Copper Length : 400 mm (approx.) Diameter :25 mm Insulating shell Length : 250 mm</p>

		<p>Diameter : 200 mm</p> <p>Cooling Water Jacket</p> <p>Length : 75 mm</p> <p>Diameter : 100 mm</p> <p>Heater : Nichrome Wire.</p> <p>Heating Control : Special arrangement to control heat input</p> <p>Water Flow Measurement : By flow sensor</p> <p>Control panel comprising of</p> <p>Digital Voltmeter : 0-300 Volt.</p> <p>Variac : 0-230 V, 2 Amp.</p> <p>Digital Temp. Indicator : 0-199.9°C, with multi-channel switch,</p> <p>Temperature measurement : By temperature transmitter, Output 4-20 mA - 8 Nos.</p> <p>With standard make on/off switch, Mains Indicator etc.</p>
4	Heat Transfer in natural convection	<p>Test Section</p> <p>Diameter : 38 mm (approx).</p> <p>Length : 500 mm (approx).</p> <p>Heater : Nichrome Wire.</p> <p>Heating Control : Special arrangement to control heat input</p> <p>Control panel comprising of:</p> <p>Digital Voltmeter:0-300 Volt.</p> <p>Digital Ammeter : 0-2 Amp.</p> <p>Variac : 0-230 V, 2 Amp.</p> <p>Temperature Measurement: By Temperature transmitter, Output 4-20 mA -8Nos.</p> <p>With standard make On/Off switch, Mains Indicator etc.</p> <p>MS Duct to accommodate the assembly with front window of Acrylic.</p>
5	Heat Transfer in forced convection	<p>Test section : Horizontal, externally heated</p> <p>Diameter : 28 mm (approx.)</p> <p>Length : 400 mm (approx.)</p> <p>Blower : FHP of Standard make</p> <p>Heater : Nichrome Wire.</p> <p>Heating Control: Special arrangement to control heat input</p> <p>Air Flow Measurement : Orificemeter with differential pressure transmitter</p> <p>Control panel comprising of:</p> <p>Digital Voltmeter:0-300 Volt.</p> <p>Digital Ammeter :0-2 Amp.</p> <p>Variac : 0-230 V, 2 Amp</p> <p>Temperature Measurement: By Temperature transmitter, Output 4-20 mA -6Nos.</p> <p>With standard make On off switch, Mains</p>

		Indicator etc.
6	Stefan Boltzmann's Apparatus	<p>Hemisphere : Dia.- 200 mm (approx.) made of Copper Jacket: Dia. 250 mm (approx.) made of Stainless Steel Test Disc Size:20 mm Dia. x 1.5-mm thickness made of Copper Water Tank : Stainless steel 12 Ltrs. cap.</p> <p>Heater: Nichrome wire immersion heater. Heating control: Special arrangement to control heat input Control panel comprising of: Digital Temp. Controller: PID Controller, 0-199.9°C (for water tank) Temperature Measurement: By Temperature transmitter, Output 4-20 mA -2Nos. With standard make on/off switch, Mains Indicator etc.</p>
7	COMPUTER CONTROLLED - HEAT TRANSFER THROUGH COMPOSITE WALL (With Data Logging Facility)	<p>Slab assembly arranged symmetrically on both sides of heater. Slab Material: Slab Size Cast Iron: 250 mm dia. & 20mm thick. Bakelite: 250 mm dia. & 15 mm thick. Press Wood: 250 mm dia. & 12 mm thick. Heater: Nichrome wire type Heating control: Special arrangement to control heat input Temperature Measurement: By Temperature transmitter, O/P 4-20mA- 8Nos. Control panel comprising of Digital Voltmeter: 0-300 Volts. Digital Ammeter: 0-2 Amp. Variac: 0-230 V, 2Amp. With standard make On/off switch, Mains Indicator etc. Cabinet to accommodate the slab assembly with front window of glass/acrylic.</p> <p>Computer System: Branded PC(HP/DELL) with I5/I7 processor, DVD Drive, preloaded windows, Windows 8, MS-Office pre-loaded, DATA ACQUISITION CARD.</p>

Annexure-II

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 figures	In words	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: _____