



Central Purchase unit
National Institute of Technology Srinagar-190006

Tel:- 0194-2424792/2429423/2424809/2424797 Fax:- 0194-2420475

No. NITS/CPU/ /2016/ Steam-Mech/ 2445-50

Dated.:- 10.11 .2016

M/S.....

Sub: Invitation of Bids for the supply of equipment for Steam Laboratory of Mechanical Engineering Department.

Dear sir,

- 1.. You are here by invited to submit your most competitive Bid for the lab equipment with detailed Specification of these goods as give in Annexure-A. The offer to be submitted in two bid System.
2. **(Envelope- A (Technical Bid) It should contain the following; (As per tender opening format)**
 - (a) Authorization /dealership/manufacturer certificate.
 - (b) Valid tax clearance certificate for bidders from J&K State.
 - (c) Technical specification/ literature for the goods/equipment
 - (d) Bid security @ 3% in the form of CDR in favour of Chairman, Central Purchase Unit NIT Sgr. and tender document fee Rs. 300/- in the form of DD, in favour of Director, NIT Srinagar.
 - (e) Certificate of sale after sale service support wherever necessary.
 - (f) Proof of legal status.
3. **(Envelope-B (Price Bid) It should contain the following**
 - (a) Bid prices (Preferably in Indian Rupees)
 - (b) Bid price should be firm for the bid validity period.
 - © **All duties, taxes and levies (CST/GST/VAT or other taxes) payable, must be quoted separately.**
 - (d) **As per SRO 129 of Government of Jammu & Kashmir, the institute is Exempted for state entry tax. The Institute will provide Entry tax exemption certificate to successful bidder with supply order. The Institute is also exempted for Custom/Excise duty.**
 - (e) The rate quoted should be FOR NIT Srinagar.
 - (f) Bid price should be without over writing, however minor over writing should be clearly signed by the bidder. In case of any discrepancy between price quoted in figures and words, the price quoted in words shall be accepted.
 - (g) **The rates should be covered with transparent tape.**
 - (h) Bid form in the format given in Annexure-B
 - (i) Technical specification Schedule as per Annexure-C
 - (j) Price bid schedule in the format enclosed in Annexure-D
4. **Validity of Bids**

Bids shall remain valid at least for 120 days from the date of opening.
5. **Evaluation of Bids.**
 - (a) The purchaser shall evaluate and compare the bids which are found substantially Responsive. i.e which are
 - (i) Properly signed
 - (ii) Conform to terms and conditions and technical specifications.
 - (iii) Accompanied with Bid security and all other documents.
 - (b) Bids shall be evaluated separately for each item.
6. **Award of contract**
 - (a) Contract shall be awarded to the bidder whose bid is commercially, technically responsive and offered at lowest evaluated price.
 - (b) Successful bidder shall be notified about the award of the contract where in terms and conditions of supply shall be incorporated.

7. **Payment.**
100% payment shall be made against delivery of goods at NIT Srinagar Campus in good condition, as per specifications and successful installation/commission.
8. **Warranty:**
(a) All items shall carry comprehensive standard warranty of two years.
9. **Performance security.**
(a) Successful Bidders shall submit performance security promptly after award of contract.
(b) Performance security shall be in the form of Bank Guarantee for the amount as mentioned in the award of contract letter/supply order. However it shall not exceed 10% of the contract value.
10. **Penalty for delay.**
A penalty of 0.15% (fifteen paisa per hundred) per day shall be imposed if the supply is made beyond the prescribed period mentioned in supply order.
11. **Settlement of disputes.**
Settlement of any dispute will be made under the jurisdiction of Srinagar court.
12. **Liquidated Damages.**
If the bidder after accepting the purchase order of goods/equipments or services, fails to deliver any or all of the goods/equipments or to perform the services within the specified period, a penalty of 15 paisa per hundred per day shall be charged. The maximum penalty can be limited to 10% of the cost. Once maximum is reached NIT Srinagar may proceed on its own to consider the termination of the supply order.
13. **Submission of Bids.**
(a) **The last date for submission of bids is 12.12.2016 upto 2.30 P.M.**
(b) Bids should be properly sealed.
(c) The two envelopes A & B should be kept in separate one envelope. Enquiry No., due date of opening and **Quotation for supply of equipment for Steam Lab of Mechanical Engg.Deptt.** must be mentioned on this envelope.
(d) Bids should be addressed to Chairman Central Purchase unit NIT Srinagar.
(e) Bids shall be accepted up to one hour before opening.
(f) Bidders not from Srinagar shall dispatch bids sufficiently well in advance so as to reach the destination one day prior to bid opening.
14. **Bid opening**
(a) The Technical Bid (Envelope- A) will be opened first and price Bid (Envelope-B) of the bidder will be opened after qualifying the Technical Bid (Envelope-A).
(b) Interested bidders can attend the bid opening.
15. **Notwithstanding above the purchaser reserves the right to reject any or all the bids.**
16. **We look forward for your quotation.**

Thanking you,

Chairman
Central Purchase unit, NIT Srinagar

Note:

1. Before preparing your valuable bid kindly go through the document fully and take care of all the requirements.
2. Bidders from outside Srinagar may please send their Bids much in advance so that they are received in time.

Annexure-A
Schedule of Requirements.

Details of Equipment:-

S.No	Description of items	Specifications	Qty	Delivery Period
1	Ultrasonic Homogenizer	<p>Running Process capability 24/7. Dry Running Protection. Capacity for Sample Volume : 5ml-4000ml in Batch Process. Continuous Process thru Flow cell Application: Emulsion preparation, homogenization, Dispersion and Deagglomeration of nano particles, Grinding of nano materials, Extraction and sonochemistry. Power : 400 W Frequency : 20-30 KHz Adjustable Amplitude:20-100% Pulse Adjustable : 0-100% Probe : Provision for Glass Sonotrode for batch process, Provision for glass flow cell with temp control for corrosive sample. from 5ml up to 200ml made of titanium, tip diameter 3mm, approx. length 100mm, male thread M10x1, for samples from 20ml up to 500ml made of titanium, tip diameter 7mm, approx. length 100mm, male thread M10x1, for samples from 100ml up to 2000ml made of titanium, tip diameter 22mm, approx. length 100mm, male thread M10x1, for samples for samples from 200ml up to 4000ml made of titanium, tip diameter 40mm, approx. length 100mm, male thread M10x1, Stand with 16 diameter 16mm, made of stainless steel, base length 300mm, width 150mm, height 600mm Capacity: 5ml to 4000ml System Facility: All are in-Build Data Recorded & Software controlled, Temperature Probe, timer, Colour Touch Panel, Digitally Display. Voltage: 100-230V Certified : CE Certified and IP41 grade Sound Protection Box (Imported) with vertical adjustable facility clamp for holding diam. 0 to 63mm, made of aluminum, for use with stand stands of up to 16.5mm.</p>	1	45 days

2	Thermal Property Analyzer	<p>Range of Measurements K: 0.02 to 4 Wm⁻¹ C⁻¹ ; D: 0.1 to 1.0 mm² s⁻¹ R: 0.25 to 50mC W⁻¹ ; C: 0.5 to 4 MJ m⁻³ C⁻¹</p> <p>Accuracy : ±5 to ±10% Thermal Conductivity/Resistivity ±10% Specific Heat; ±10% Thermal Diffusivity</p> <p>Measurement Speed 90 Seconds to 10 min</p> <p>Data Storage 4,095 readings, flash memory with USB data collection mode</p> <p>Compliance To Standards ASTM Standard D5334-08 and IEEE Standard 442-1981</p> <p>Operating Environment of Sensors -50 to 150°C</p> <p>Battery Source 4 AA</p> <p>Auto-Read Mode Enabling Users to collect unattended data at user-defined intervals in the auto-read mode</p> <p>Type Ultra low-power 16-bit microcontroller w/ 24-bit A/D converter</p> <p>Display Liquid Crystal Display (LCD) 7.5 cm x 4 cm</p> <p>Case Dimensions 15.5 x 9.5 x 3.5 cm</p> <p>Included Accessories</p> <ul style="list-style-type: none"> • Thermal Conductivity/Resistivity sensor (for liquids) • Thermal Conductivity/Resistivity sensor (for solids) • Dual-Needle Thermal Diffusivity and Specific Heat sensor (for solids) • Thermal conductivity/resistivity; for use with stone or cement samples <p>Data Logging facility Portable connectivity with the computer for logging the data through the inbuilt software.</p>	01 Unit	
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3	Rheometer	<p>Min. Viscosity Range: 0.1 cp Max. Viscosity Range: 3000 cp Sample Volume Not more than 2 ml Speeds: 0.1-250RPM Speed Increments: 2.6 K Accuracy: +/-1.0% of range Repeatability: +/-0.2% Cone Spindle Shear Rate : 7.50N/S Cone Angle: 0.8 Deg Cone Radius: 2.4 cm Sample cup 7 inch Full Color Touch Screen display -2600 selectable speeds -Analyze characteristics such as yield stress, flow curves, leveling and recovery -Built-in math models for data analysis in stand-alone mode -Complete computer control with Software -Convenient Bubble Level</p> <p>Accessories Main Rheometer Lab Stand Cone Spindle 2.0 N/S with Cone Angle : 3 Deg & Cone Radius ; 2.4 cm Cone Spindle 3.87 N/S with Cone Angle : 1.5 Deg & Cone Radius ; 2.4 cm PG Flash Software + Rheocalc T Software / 21 CFR Part 11 RTD Temperature Probe Convenience Pack Instruction Manual Carrying Case Rheocalc T Software</p> <p>Measured Properties: Viscosity Temperature Shear Rate/Stress % Torque Speed/Spindle Step Program Status Math Model calculations Temperature Control Yield Tests</p> <p>Analyze Characteristics yield stress, flow curves (mixing, pumping, spraying), leveling and recovery</p>	01 No.	
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4	5 KVA Online UPS	<p>5 KVA Online UPS with following specs:</p> <p>Input:</p> <ul style="list-style-type: none"> i. Rating voltage:220/230/240, Single phase ii. Voltage Range: 230 ± 20 % iii. Frequency : 50 ± 5 % iv. Electrical Connection: 6 Sq. mm Neutral & Phase Output: <p>Output:</p> <ul style="list-style-type: none"> i. Rating voltage:220/230/240, Single phase ii. Voltage Regulation : ±2% iii. Frequency : 50 Hz iv. Frequency Regulation : ± 0.05 % v. Wave Form: Pure sine wave vi. Transient Response: <8(10%~90% Linear Load) vii. Voltage Harmonic ≤ 3 % (Linear Load) viii. Over Load Capacity : 110 % Continuous, 111-150 % (18 Sec), >150(1 sec) ix. Crest factor: 3:1 x. Receptacle: BS546 15 A-1, screw terminal <p>Audible warning:</p> <ul style="list-style-type: none"> i. Battery – backup ending: Intermittent Overload: continuous <p>Power Rating : 5KVA/3500 W Display:</p> <ul style="list-style-type: none"> i. LED: Inverter on # Battery High# charging# Battery Low# Overload ii. 7 segment: output voltage Interface: i. Db9: RS 232 (optional) Others: i. Battery start: standard ii. Cabinet wheels : standard iii. Extended battery charging: optional iv. Static by pass: optional Efficiency i. AC- AC ≥ 85 % % (Full Load) <p>Transfer time : 0 mS Operating Temp: 0-45 °c Humidity : 5-95 (Non Condensed)</p>	04 No's	
		<p>Battery: 65 AH SMF Battery Back up : 4 hrs on full load</p>	25x4= 100 No's	
		<p>Voltage Stabilizer Step Based 10 kva voltage stabilizers copper wound input 90- 220 volt out put 220-230 volt with protection oil cooled and automatic cut</p>		
		Battery Rack	1 × 4	

(Tender opening format)

Name of the firm:- _____

Tender for supply of _____

NIT No. & Date:- _____

Technical specification/ literature attached:- Yes/No

Valid tax clearance certificate attached:- Yes/ No

Registration/ Authorization Dealership/
manufacturer certificate attached:- Yes/ No

Revenue stamp affixed. Yes/ No

Rates covered with transparent tape:- Yes/ No

Bid document fee deposited:- Yes/ No

Call Deposit Receipt enclosed:- Yes/ No.

Bid price in Indian Rupees:- Yes/ No

FOR Srinagar:- Yes/ No

Bid without correction/overwriting:- Yes/ No

Seal & Signature of the Supplier.

Annexure-B
BID FORM

From M/S.....
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To,
Chairman,
Central Purchase unit, NIT Srinagar.

Ref: NIT No.: NITS/CPU/ /2016-17 Dated:.....goods/Equipment for
.....Department

Sir,
With reference to above invitation for bids we would like to say that we have gone through your bid document thoroughly and hence offer our competitive Technical/Price Bid in sealed envelope for the supply of various goods/equipment listed in your document.

The following documents constitute our Bid.

- (a) Bid form
- (b) Price Bid schedule in the requisite format
- (c) Authorization dealer ship certificate from the manufacturer
- (d) Valid sales tax certificate
- (e) Technical literature for the goods/equipment
- (f) Names of organization where this equipment has been supplied. (Applicable for equipment whose unit price exceeds Rs.2.00 lacks
- (g) Bid security as mentioned in the schedule of requirements in the form of CDR drawn in favour of the Chairman Central Purchase Unit NIT Srinagar.
- (h) Telephone No.....

Kindly feel free for any enquiries and clarifications.

Yours Sincerely

(.....)
From M/S.....

Place.....

Date.....

Annexure-C

Technical specification.

Name of Equipment /Goods : e.g., Tribometer

Make /Model/ Country of origin: e.g., Marus Tribometers and Instruments/ TR20-2013/

S. No.	Technical Specifications (as per. NIT/CPU/13/ aaaa-aaaa Advertised)	Technical Specifications of the Make /Model	Complies	Higher/Better (with detail quantification)	
				Higher/Better	Quantification
1			Yes	----	
2				Higher	
3					

