



Central Purchase unit
National Institute of Technology Srinagar-190006

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

No. NITS/CPU//2015/Phy/1824-30

Dated.:- 30.12.2015

M/S.....

Sub: Invitation of Bids for the supply of lab equipment for Physics 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 28.01.2016 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 lab equipment for Physics 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	Item	Description	Qty	Delivery Period
1	Hall Measurement System	<p>Having capability to measure bulk/sheet carrier concentration, mobility, hall coefficient, bulk resistivity, conductivity, magneto resistance and vertical/horizontal ratio of resistance.</p> <p>Measuring Features:</p> <ul style="list-style-type: none"> ➤ Electrical Resistivity: $10^{-4} \sim 10^7 \Omega\text{cm}$ ➤ Carrier mobility : $1 \sim 10^7 \text{cm}^2/\text{Volt}\cdot\text{sec}$ ➤ Carrier concentration : $10^7 \sim 10^{21} 1/\text{cm}^3$ ➤ Magnetic Field range : 0.55T <p>Current Source:</p> <ul style="list-style-type: none"> ➤ Range: 1nA- 20mA ➤ Compliance: 12V ➤ Voltage Measurement: <ul style="list-style-type: none"> ➤ Input Impedance: $2 * 10^7 \text{ohm}$ ➤ Input voltage range: +/- 12V <p>Materials for Measurement: Si, SiGe, SiC, GaAs, InGaAs, InP, GaN, TCO (including ITO), AlZnO, FeCdTe, ZnO, ABO₃, and All of semiconductor.</p> <p>Sample Size: 5x5mm² ~ 20x20mm² with thickness less than 2mm.</p> <p>Suitable sample holding system having pogo pin on four points which has spring inside with gold coated tips.</p> <p>Variable Temperature controlling system:</p> <ul style="list-style-type: none"> ➤ Temperature range: 300K (Room Temperature) & 77K (N₂) ➤ Temperature measurement accuracy : +/- 0.5K ➤ Temperature Resolution : +/- 1K <ul style="list-style-type: none"> ➤ Window compatible Controlling System having capability of plotting I-V curve and temperature dependent carrier mobility, electrical conductivity , hall Coefficient, carrier concentration ➤ Optional Items: The price of the following items 	01 No	45 days

		<p>should bequote separately:</p> <ol style="list-style-type: none"> 1. Variable Tesla compatible Magnet kit with HMS system should be 0.37T ~ 1T at Room Temperature (RT) and liquid Nitrogen (LN2). 2. Magnet kit should be 1.0T KIT at Room temperature measurements only. 3. Indium-tin (5%) alloy compound for sample holding (100 gm, 50gm). 4. Liquid Nitrogen transfers Dewar (litre, 20litre, 30litre). 5. Measurement Sample Size should be (5mm to 20mm) for measuring thickness 2~4.5mm and 3~5.5mm thickness sample. 		
2	UV-Visible-NIR Spectrophotometer.	<p>Optical System: Double beam, The Czemy-Tuner Monochrometer with a holographic grating of 1200 lines/mm. Quartz coated optics Detector: Photo multiplier tube. Light Source: Tungsten-halogen and deuterium are lamps. Wavelength Range: 190-900 nm. Resolution: 0.1 nm. Wavelength Reproducibility : <0.1nm Spectral bandwidth: Copntinuous slit 0.1-5nm with 0.1nm interval Accessories:</p> <ol style="list-style-type: none"> 1. Solis state integrating sphere for powder, thin film measurement: 1 No 2. Adjustable angle solid sample holder 1 No 3. Spare deuterium lamp 1 No 4. Spare tungsten lamp 1 No 5. Quartz cells of 10 mm path 02 pairs 6. Micro cell holder for sample and reference 1 No 7. Suitable branded PC i3 and laser printer black 1 No. 	01 No	45 days
3	Spin Coater.	<p>Substrate: Piece~ 4 inch Spin Speed: Max- 500 rpm - 8000 rpm , Vacuum Chuck: Anodized & Polished Al. Time: 0.1~999sec Pump: Oil-less Vacuum Pump. Batch Type: Single Wafer Processing. Accuracy: 1% Dimension: 230(D)*340(W)*260(H) Electrical Power: 220V, 5A</p>	01 No.	45 days

		Spin coater with vacuum chucks designed for easy and quick coating via sol-gel for wafers up to 4".		
4	Centrifuge apparatus.	<p>Steeple speed regulator, Safety Ltd interlocks to prevent cover opening during centrifugation, Imbalance detector with cutoff.</p> <p>Max. Speed (rpm): 4400</p> <p>Max. RCF (g): 2350.</p> <p>Max. Capacity(ml): 200-300</p> <p>Supply: 220-240 Volts 50 Hz, Single phase.</p>	01 No	45 days
5	Ultrasonic Bath(Sonicator).	<p>Operating Frequency: 33 3KHz.</p> <p>Input Voltage range: 170V/AC-270AC, 50Hz, 1Ph.</p> <p>Micro controller based timer with range: 0 to 30/99 minutes.</p> <p>Thermostatic controlled temperature controller.</p>	01 No	45 days

(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/ /2014-15 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					

