



Central Purchase unit
National Institute of Technology Srinagar-190006

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

No. NITS/CPU/ /2014/Chemical/685-90

Dated.:- 05.12 .2014

M/S.....

Sub: Invitation of Bids for the supply of equipment for Chemical Engg 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 paise 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 paise 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. 01. 2015 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 Chemical 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	Item	Description	Qty	Delivery Period
1	Bioreactor	<p>Autoclavable: borosilicate glass vessel, jacketed/non-jacketed, complete in all respects, suitably applicable in all modes of operations (batch, fed-batch, continuous etc.) for bacterial, yeast, fungal, mammalian and plant cell cultures of free, immobilized and co-immobilized conditions.</p> <p>Size range: 3 – 5 litre</p> <p>Control System: Microprocessor based PID digital controller for DO (100%), pH (1 – 14), temperature (4 – 80 °C), stirring speed (1-1000 rpm or more) with a magnetically couple stirred system. pH, DO, foam/level, temperature, stirring speed, etc. to be displayed on the controller ON-LINE.</p> <p>Peristaltic Pumps: Apart from the pumps given for acid, base, foam/level, etc.; variable speed and constant speed peristaltic pumps included.</p> <p>Gas Mixing Station: Mixing of three gases, i.e. Air, O₂ and CO₂ with pressure control valve, rotameter, and check valve along with filter to sterilize the mixed gases.</p> <p>Sensors/probes: Sterilizable, for DO, pH, redox potential etc. included.</p> <p>Software: Proper software for data login and graphical representation, and complete operation/control of the biosystem.</p> <p>Hardware configuration: compatible to the biosoftware to be given for proper operation and control.</p> <p>Complete integrated system, which houses all peripherals on a space saving single module.</p> <p>Suitable oil less, moisture-and dust-free air compressor for aeration included.</p> <p>A proper autoclave for sterilization of the fermenter and its associated accessories. Essential spare parts for five years.</p> <p>Hardware configuration: Should be provided by the supplier as per requirement.</p> <p>Note: Installation, demonstration and training of staff free of cost. Service manual must be supplied along with the operation manual.</p>	01 No	45 days
2	Shaking Incubator	<p>Table top/floor model shaking incubator with refrigerated system capable of holding at least 16 or more Erlenmeyer shake flasks of 500 ml.</p> <p>Universal tray (platform) with clamps of different sizes in order to hold the Erlenmeyer flasks up to 1000 lit.</p> <p>Shaking speed: Orbital speed range 20 – 500 rpm with ± 0.1 rpm accuracy, digital indication 1rpm, with proper timer, active break for quick change of flasks or trays, soft start/stop. Temperature: 20 °C below ambient to 80 °C with ± 0.1 °C accuracy, digital indication 0.1 °C, PID digital control, refrigeration with CFC free closed compressor.</p> <p>Drive Mode: Rugged magnetic drive on permanent magnet, facility for variable throw diameters 12.5 mm/25 mm/50 mm on the same machine.</p> <p>Facility for gas inputs like, CO₂/N₂ etc. whenever required.</p> <p>Facility for interfacing the system with a PC for programming</p>	01 No	45 days

		/calibration /data acquisition and supervisory control. Necessary hardware/software included Note: Installation, demonstration and training of staff free of cost. Service manual must be supplied along with the operation manual.		
3	Anaerobic Chamber	Complete anaerobic system providing all of the components needed to safely inoculate, incubate, examine, and subculture even the most fastidious organisms. The stainless steel chamber should be equipped with glove ports, and connects to an oversized interchange. At the push of a button, an auto-sequence 6 stage cycle control should purge the interchange, allowing rapid transfer of materials to and from the chamber. Maintenance of strict anaerobiosis with anaerobic grade gas and nitrogen. The work area should also include a built-in air-jacket incubator, electrical outlets, and adjustable shelves.		
4	Double Beam UV-Vis Spectrophotometer	UV-visible spectrophotometer: to make quantitative and qualitative analysis of specimen materials in the ultraviolet & visible spectral range of 190 nm – 1100nm. Fully automatic operations, automatic 8 cell changer, automatic wavelength calibration & wave length scan, automatic peak picking & spectrum display., Large screen with graphic display, data should be printed by a printer and sent to computer via RS 232 port. Set of 4 quartz and 16 glass cuvettes. SOFTWARE shuld be INCLUDED. Perfectly designed double beam to realize high accuracy and reliability measurement to meet various application requirements. For qualitative and quantitative analysis in fields such as biochemical research and industry, pharmaceutical analysis and production, education, environmental protection, food industry, clinical examination, sanitation and antiepidemic etc.		
5	Biomass Gasifier (Suitable for practical and research work)	Estimated Power output: 2 – 10 kW; Biomass consumption: 5 – 12 kg/hr; Types of biomass to be used: Wood chips, Cashew nut, Saw dust, Rice husk, River/Lake weeds, Tree leaves, Maize/Wheat straws etc.; Fuel moisture tolerance: up to 30%; Ash grate shaker; Dimension: not more than 1.2m×1.2m×1.8m; Weight: not more than 500 kg;Automated control system; oxygen sensor; syngas sensors; provision for sampling; provision for air flow rate adjustment; option for power generation		
6	Anaerobic Digester	Suitable for practicals and research work		
7	Aerobic Digester	Suitable for practicals and research work		
8	Bio-gas Digester	Suitable for practicals and research work		
9	RTD Studies in CSTR with 1/2 HP Compressor	Suitable for carrying out RTD experiments		
10	RTD Studies in Packed Bed Reactor	Suitable for carrying out RTD experiments		

(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					

