



**Central Purchase unit
National Institute of Technology Srinagar (J&K) -190006**

Email: cpu@nitsri.ac.in

Proposal -I

Document for Tender No. 45 Dated 16.01.2019

**"Tender Notice for Invitation of bids for supply of Lab equipments
for Chemistry Department"**

-0-0-0-

1. Sealed Bids are invited for supply of various equipment having detailed Specifications as given in Annexure –I, in a 2- bid format on the terms & conditions and as per the instructions given below from para-2, from interested eligible bidders:
- 2. Techno-Commercial Bid, Containing the following documents in Envelope- A:-**
 - (a) Proof of being Original equipment manufacturer or Distributor/Marketing agent/ Authorized dealer in the shape of copy of agreement and registration under law in force.
 - (b) *The OEM (Original Equipment Manufacturer) of offered product should be ISO 9001:2015 and ISO 14001:2015 certified or certified by any other national or international regulatory body. The products quoted must also be certified.*
 - (c) PAN card & Tax registration document of the firm.
 - (d) ITR's of previous 3-years.
 - (e) *Proof of annual turnover of the firm for last three years in such trade, which shall not be less than Rs.100.00 lacs., with at-least one such contract worth not less than Rs. 40.00 lacs or two such contracts worth Rs. 70.00 Lacs to reputed Institutes/ organizations/ Departments during last three years.*
 - (f) Proof of availability of after-sale support & service centre at Srinagar.
 - (g) Bid security for Rs. 1.50 lacs in the form of CDR/BD/DD/TDR/FDR pledged to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K) and tender document fee Rs.1,000/- in the form of DD, favoring of Director, NIT Srinagar. Tender without bid security /document fee shall be rejected.
 - (h) Bid form in the format given in Annexure-II duly filled.
 - (i) List of organizations/ Institutions where such equipment has been supplied & installed successfully during last 3-years.
- 3. Price Bid Containing the following in Envelope-B:-**
 - (a) Prices offered and quoted both in words & figures. Prices must be offered /quoted in the format enclosed as Annexure-III in INR only. The rates quoted should be covered with transparent tape.
 - (b) The rate quoted should be FOR NIT Srinagar (J&K).
 - (c) 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 will prevail. Bid price should be firm for the bid validity period.
 - (d) All duties, taxes and levies (GST or other charges) payable, must be quoted separately. GST as applicable to Educational & Research Institutes shall be charged. Any document required for this purpose from us must be mentioned in the offer which shall be provided along-with the Supply order.
 - (e) As per SRO 129 of Government of Jammu & Kashmir, the institute is Exempted from State entry tax. The Institute will provide Entry tax exemption certificate to successful bidder with supply order. The

4. Validity of Bids

Bids shall remain valid at least for 120 days from the date of opening of the bids.

5. Evaluation of Bids.

(a) The purchaser shall first evaluate and compare the technical bids as per following criteria to determine the techno-commercially qualified bidders:

- (i) Properly filled and signed as per given formats
- (ii) Conform to terms and conditions and technical specifications.
- (iii) Are accompanied with Bid security and all other documents

(b) *In the 2nd step, the financial bids of only those bidders who qualify from the above process will be evaluated to determine the final successful bidder.*

6. Award of contract.

(a) Contract shall be awarded to the bidder whose bid is commercially-technically qualified and is offered at lowest reasonable evaluated price.

(b) Successful bidder shall be notified about the award of the contract through a supply order where- in terms and conditions of supply shall be incorporated.

7. Payment & Performance Guarantee:

100% (90% + 10%) payment shall be made after successful receipt of goods in good condition and accepted as per prescribed specifications by the nominated committee and after successful installation & commissioning. 10% will however be retained as security deposit against performance guarantee for the warranty period.

8. Warranty and after sale service:

(a) All items shall carry comprehensive standard warranty of 02 years from the date of installation & commissioning as well as service support after expiry of warranty.

9. Settlement of disputes.

Settlement of disputes if any shall be subject to the jurisdiction of Srinagar Courts only.

11. 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 with-in the specified period, a penalty of 0.50% (half percent) of the price value of the item per week or part thereof shall be imposed. The maximum penalty shall be limited to 10% of the cost. Once maximum is reached, NIT Srinagar shall proceed on its own to consider the termination of the supply order, on the risk & responsibility of the defaulting bidder.

12. Submission of Bids.

(a) ***The last date for submission of bids is 06.02.2019 up-to 4.00PM.***

(b) Bids should be properly sealed.

(c) The two envelopes A & B should be separately sealed and superscripted as Techno-Commercial Bid & Price Bid. On Each envelope the due date of submission, Name of equipment/item/department; tender number and name of bidder should also be written .

These two sealed envelopes should be sealed in a bigger Envelop with the address of the Tender receiving Officer; Tender Number; due date of submission, Name of equipment/item/department and name of bidder.

(d) Bids should be addressed to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K)

(e) Bids not from Srinagar shall be dispatched sufficiently well in advance so as to reach the destination as per scheduled time & date. NIT Srinagar shall not be responsible for any delay caused by Post or Courier agency.

13. Bid opening.

(a) The Technical Bid (Envelope- A) will be opened first on 07.02.2019 at 2.30 pm in the office room of the undersigned in the administrative block of the Institute.

Price Bid (Envelope-B) of the qualified bidders as detailed above will be opened subsequently. Interested bidders can attend the Bid opening.

14. Notwithstanding above, the purchaser reserves the right to reject any or all the bids received in response to this N.I.T. or withdraw it without assigning any reasons thereof.

15. For any future information or corrigendum or addendum regarding this tender, please be in touch with our website: www.nitsri.ac.in.

16. any clarification may sought on the following emails:

- Lab In-Charge: javidbanday@nitsri.ac.in
- Central purchase Unit: cpu@nitsri.ac.in

Officer In-charge
Central Purchase unit, NIT Srinagar
Email: cpu@nitsri.ac.in

N.B.

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 well in advance so that these are received in time.

No. NIT/CPU/18/ 4614

Dated 16.01.2019

Annexure-I
“Technical Specifications of FT-IR Spectrophotometer”

Wavenumber Range	7500–350 cm ⁻¹ or better	01 No
Wavenumber Accuracy	Should be 0.1cm ⁻¹ or better	
Beam Splitter	KBr	
Wavenumber reproducibility/ precession	Should be 0.05 cm ⁻¹ or better	
Spectral Resolution:	Should be 0.5 cm ⁻¹ or better	
Sensitivity Peak to peak noise:	Should be 45,000 : 1 peak to peak or better	
Source	Mid IR source / as per wavenumber range	
Reference Laser	Solid state laser or He-Ne laser	
Interferometer	Permanently aligned. it should be required to realigned after space shifting. Results must be reproducible.	
Detector	Must be DTGS/ DLATGS Detector	
Optics	Completely sealed and desiccated optics with life indicator with Transmission module or gold coated optics.	
Software	Suitable software for Spectral collection, Quantitative analysis, baseline correction, smoothening, derivitization, spectral deconvulation.	
Accessories	<ol style="list-style-type: none"> 1) Transmission module must be quoted with Pellet Holder/ Liquid Cell, Die Set, KBr Powder, Silica Gel (Sufficient quantity for unkeep), Agate/pestle & 15 ton HYDRAULIC Press, NIST certified/traceable polystyrene film for calibration. 2) Must have suitable ports for future upgradation like GC-IR interface, TGA-IR interface, and IR microscopy, etc. 3) System should be quoted with certified library for 2500 – 3000 spectras for catering different applications like forensic, fod additives, contaminants, polymers, pharmaceuticals, etc. 4) Automatic vapor correction. 5) ATR accessories with diamond crystal should be quoted for analysis of Polymers ,packaging materials ,corrosive and reactive solids, liquids, resins, powders, gels etc, 6) Latest Configured computer with latest genuine windows, 4 GB RAM, 5K UPS with 30 min back up, optical mouse and laser jet printer at the time of installation 7) Air conditioner (Split 1.5 ton) formaintenance control of temperature 8) Upgradation for temperature in reflectionand transmission mode and also gas analysis 	
Installation and training	Installation and training to users should be given at our laboratory by a trained Application engineer.	

Warranty	1 year standard warranty and extended 5 years or more on interferometer, laser and source
All the accessories required for the installation or demonstration must be included. Consumables and non consumables should be quoted for 3 years. Components should be made available for at least 5 years or more	

Technical Specifications of Rotary Vacuum Evaporator.

Rotary Evaporator

- With Motor lift facility. Jack should lift up automatically, in case of power failure.
- Operating panel allowing for highest operational feature.
- Timer function and TFT graphical display which features all parameters, integrated vacuum controller and includes program for automated distillation.
- It should have USB and 232 RS interface for software connectivity and data logging facility.
- It should have integrated solvent library with around 40 most common solvents with expansion option and programming.
- Heating bath temperature of 170 °C or more with digital temperature display.
- Heating bath should accommodate 3000ml or more capacity flask as a standard and allow for 135mm or more horizontal extension.
- Heating bath with safety handles and drain spout.
- Condenser surface area should be 1500 Cm² or more for better recovery rate.
- The integrated screwed ring to remove sticking evaporating flasks from the vapour tube just in seconds.
- Heating bath over temperature cut-off 5 Deg C
- Rotation Speed up to 280 RPM or better with digital display.
- Built in Vacuum controller with digital display
- Facility of Set vacuum from 1000mbar to 2 mbar.
- Provision to detect unknown boiling point of solvent and hold the vacuum automatically for distillation.
- Stand with clamp to support condenser as a standard supply.
- Integrated clamp to hold 100% evaporating flask.
- Safety temperature circuit and dry run protection of heating bath.
- All parts which are in contact with the media should consist of PTFE

- PTFE vacuum seal with minimum three year life span made up of PTFE
- Higher resistance against corrosion especially from condensed water.
- Strong vapour tube with sleeve to added more strength and easily removes from the drive.
- To prevent short circuits and corrosion, the cable coupling should comply with the protection class IP67.
- IQ-OQ documentation should be available
- Supplied with auto accurate temperature sensor
- Vacuum valve should be supplied for easy cleaning
- Wolff bottle should be supplied for additional recovery of solvents to protect vacuum valve and vacuum pump.
- Standard warranty of 3 years.

Vacuum Pump

- Oil free diaphragm vacuum pump
- Three stage diaphragm pump made from chemical resistant material.
- It should achieve an ultimate vacuum of 2 mbar.
- It should have high Suction capacity of 1.3m³/h or better.
- Vacuum pump should have auto-cleaning function and with mechanical silencer.
- Even if the gas blast valve is open an excellent ultimate vacuum should be reached when working with easily condensable vapours making distillation of high boiling solvents such as DMF or DMSO possible at low bath temperatures.
- Speed adjustments should stop completely if vacuum is reached and runs intermittently at very low speed to hold vacuum constant.
- Operation without vacuum valve.
- Most precise vacuum level and vacuum pump speed should be adjustable with digital display.
- Increased diaphragm performance life due to periods of non- operations
- Significant noise and vibration reduction due to periods of non- operations
- less power consumption below 200 Watt.
- Supplied with condenser
- Standard warranty should be 3 years.

Chiller

- Temperature Range : -20 °C to Room Temperature.
- Highest cooling capacity

- Digital display for temperature setting and reading out actual temperature.
 - Cooling power : 1290 watt @ + 20 Deg C.
 - Coolant volume 4 litre or better.
 - Pump flow rate should be 16 litre or more per minute or more.
 - Speed regulated pump for temperature stability of ± 1 K and low noise level..
- Standard warranty should be of 3 year.

Annexure-II
BID FORM

To,
Officer In-charge,
Central Purchase unit,
NIT Srinagar.

Ref: Tender No. _____ issued under No.: NITS/CPU/ 2018/.....
Dated..... for-----
ForDepartment

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:

- Technical specification/ literature attached:- Yes/No
- Valid tax clearance certificate attached:- Yes/ No
- OEM/ Authorized Dealership / 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
- Price Bid schedule in the requisite format
- List of organization where this equipment has been supplied/Installed

Kindly feel free for any enquiries and clarifications.

Yours Sincerely

From M/S.....

Place:

Telephone No.....Email:

Date.....

Annexure-III

Price Schedule

S. No	Name of equipment/ Goods /item	Basic cost	GST	Any other tax	Total unit price	Quantity	Total Price
1							
2							
3							
4							
5							

