



**Central Purchase unit**  
**National Institute of Technology Srinagar-190006**

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

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No. NITS/CPU/ /2016/Fluid-Civil/2233-40

Dated:- 31 .05.2016

M/S.....

**Sub: Invitation of Bids for the supply of Lab equipment for Fluid Mechanics Lab of Civil Engg. Deptt**

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 04.07.2016 upto 4.00 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 Fluid Mechanics lab of Civil 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:-**

<b>S. No</b>	<b>Item</b>	<b>specifications</b>	<b>Qty</b>	<b>Delivery Period</b>
1	Hydraulic Bench Apparatus	Compact, self contained, mounted on wheels, made of corrosion resistant material, recirculatory type with a centrifugal pump and a control valve to regulate the flow; pump discharge range = 1.2 to 1.5 lts/sec; head range = 20 to 24 m; characteristic curve for the pump; volumetric measurement facility capable of measuring both low and high flow accurately; provision for avoidance of overflow of volumetric tank; Sump tank capacity= 200 to 250 litres; Volumetric tank capacity = 60 to 70 litres; provision for quick release and assembly of fluid mechanics laboratory accessories	04	60 days
2	Hydraulic Bench accessories for:	<ul style="list-style-type: none"> <li>• Bernoulli's Theorem Apparatus</li> <li>• Orifice and Mouth Piece Apparatus</li> <li>• Flow measurement by Venturimeter and Orificemeter</li> <li>• Losses due to Friction in Pipe Lines &amp; Verification of Darcy's law</li> <li>• Losses in Pipe fitting and pipe bends</li> <li>• Reynold's Number study</li> <li>• Flow over notches and weirs</li> <li>• Impact of Jet on Vanes</li> <li>• Pitot Static Tube</li> </ul>	01 each	60 days
3	Metacentric Height Apparatus (Both Manual & Data Acquisition System)	<p>A stainless steel tank with one side acrylic sheet. A ship made of Brass/SS, will float in water filled in tank, fitted with loading arrangement, measurement of angle of tilt of ship , sump made of SS, dead weights, protractor and pointer, and accessories to conduct following experiments:</p> <p>a. To determine Metacentric height of ship model manually.</p> <p>b. To conduct the above test manually and with data acquisition system.</p> <p>Complete with data acquisition system accessories viz., digital meter, weights, load cell, computer interfacing with card and cable, calculations in MS Excel format, switches and MCB, complete user friendly software, soft and hard copies of manual, demo CD, et,</p>	01	60 days

4	<b>VELOCITY DISTRIBUTION (IN PIPES) APPARATUS</b>  <b>(Both Manual &amp; Data Acquisition System)</b>	<p>A closed circuit apparatus fitted in single frame. It comprises sump and measuring tanks made of SS pipes, valves, piptot tube ,manometer, data acquisition system, control panel, monoblock pump, manifold with, mini ball valves, box type mercury manometer etc. and other accessories required for the conduct of following experiments:</p> <p>a. To measure velocity of flow in pipe line at various sections (layers)and along length of pipe to plot distribution of velocity profile.</p> <p>b. To compare results with actual flow rate and velocity.</p> <p>c. To conduct above tests manually.</p> <p>d. To conduct the above tests with data acquisition system.</p> <p>Complete with data acquisition system accessories viz., digital meters and sensors for measurement of flow and pressure, calculations in MS Excel format, computer interfacing with card and cable ,completer user friendly software, soft and hard copies of manual ,demo CD, etc. CD,</p>	01 No	60 days
5	<b>Reynolds Apparatus</b>  <b>(Both Manual &amp; Data Acquisition System)</b>	<p>A closed circuit type apparatus fitted with caster wheels for easy movement, main components viz., sump, measurement and balancing tanks made of SS, guard and light, dye injection system and other accessories required for the conduct of the following experiments:</p> <p>a. To determine whether the flow is laminar or turbulent</p> <p>b. To determine Reynolds number with respect to above</p> <p>c. To confirm above visually with dye injection</p> <p>d. To conduct above test Manually and with data acquisition system</p> <p>Complete with data acquisition system accessories viz., digital sensors and meters for measurement of flow and water level, calculations in MS Excel format, switches, MCB, etc., computer interfacing with card and cable, complete user friendly software, soft and hard copies of manual, demo CD, et,</p>	01 No	60 days
6	Laptop and Monitor	Laptop and Monitor with multiple ports, for different experimental setup for import of data	01 No	60 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**  
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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**

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**Technical specification.**

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*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					





