



(Please Mention "REF NO" in all documents)

**QUOTATION ENQUIRY**

Ref No.: VNIT/STR/ME/VRK/ASD/2018-19/223/1364

Date: March 12, 2019

To,

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REFERENCE OF THIS LETTER MUST BE MENTIONED ON THE ENVELOPE CONTAINING YOUR QUOTATION

Sub: - Quotation Enquiry for Procurement of Item "Hydraulic Bench, Pressure Measurement Apparatus, Pitot Tube Setup, Flow Visualization Channel" for Department of Mechanical Engineering.

Dear Sir / Madam,

You are invited to submit your most competitive quotation for the supply of following items / goods as per the schedule of submission, terms and conditions mentioned below;

**Schedule of Quotation Submission**

Date of Issue : Tuesday, 12<sup>th</sup> March, 2019 Time 9.30 A.M.

Last Date/Time of Submission : Friday, 22<sup>nd</sup> March, 2019 Time 3.00 P.M.

Date/Time of Opening of Quotation : Friday, 22<sup>nd</sup> March, 2019 Time 3.30 P.M.

**Item Particulars**

SN	Item Particulars	Specifications	Quantity
1.	Hydrostatics Bench	<b>Technical Details:</b> Direct reading barometer with compensated silvered metal scale range 585 to 790mm subdivided in 1mm intervals includes thermometer 100 mm dial pressure gauge: Range 0 to 200 kN/m <sup>2</sup> (kPa) equivalent head of water in metres Dead weight pressure gauge calibrator: With 2 x 5 kg, 1kg and 2.5kg weights Universal hydrometer range 0.70 to 2.00 subdivided into 0.01 intervals Falling sphere viscometer: 40mm tube diameter Hydrostatic pressure apparatus: Comprises counter-balanced precision quadrant pivoted on knife edges at its centre of arc Level balance: 178mm diameter pan, hook for use in buoyancy experiments anti-parallax cursor, double scale 0 to 0.25kg and 0 to 1.00 kg	01
2.	Pressure Measurement Apparatus	<b>Measurement devices:</b> • Single well manometer. • Differential Manometer. • Inclined U Tube Manometer. • Vacuum Gauge. • Pressure Gauge. <b>Specifications:-</b> • Acrylic Differential manometer 250-0-250mm. • Single well Manometer 0-25mm (Limb) 0-30mm (Cup) • Inclined U Tube manometer- 0-30mm (Limb) and 0-30 mm (Inclined Limb) • Pressure gauge- 0-4 Kg/cm <sup>2</sup> • Vacuum Gauge- 0-760 mmHG	01

Signature of Bidder with Seal & Date

		<ul style="list-style-type: none"> <li>• Flow control valve to change Pressure.</li> <li>• Sump tank- 900 X 350 X 350 mm</li> <li>• Motor for recalculating type unit. - 0.5H.P. Self-Priming</li> <li>• Stop clock.</li> </ul>	
3.	Pitot Tube Setup	<p><b>Technical Specification:</b>  Pitot tube: Material Copper/SS of compatible size fitted with vernier scale.  Test Section: Material Clear Acrylic, compatible to 1" Dia. Pipe.  Water Circulation: FHP Pump.  Flow Measurement: Using Measuring Tank with Piezometer (Capacity 25 Ltrs.) and Electronic Stop Watch  Sump Tank: Capacity 50 Ltrs.  Control Panel Comprises of : Standard make On/Off Switch, Mains Indicator, etc.</p>	01
4.	Flow Visualization Channel	<p><b>Range of Experiments:</b></p> <ul style="list-style-type: none"> <li>• Demonstration of streamline flow pattern for ideal flow around immersed bodies such as a cylinder, aerofoil and bluff bodies (such as bus model etc.).</li> <li>• Demonstration of streamline flow pattern for ideal flow in channels and at boundaries – convergent channel, divergent channel, convergent-divergent channel, 90 deg bend, sudden enlargement, sudden contraction, step and replacement of a streamline by a solid boundary.</li> <li>• Demonstration of streamline flow patterns for ideal flow associated with sources and sinks formation.</li> <li>• Demonstration of flow separation from surfaces.</li> </ul> <p><b>Technical Specifications:</b></p> <ul style="list-style-type: none"> <li>• The working section with inlet &amp; outlet tank.</li> <li>• Actual viewing area: 500mm X 700mm.</li> <li>• Sinks and sources located on the bottom plate.</li> <li>• Dye tank with flow control</li> <li>• Dye injection system, (Set of needles)</li> <li>• Models – cylinders, aerofoils,</li> <li>• Base Frame with leveling screws.</li> <li>• Piping Flow control valve and bypass valve.</li> </ul>	01

**Note- Price must be quoted item-wise separately**

**Instructions, Terms & Conditions**

- 1) The price should be quoted F.O.R. VNIT, Nagpur on delivery basis.
- 2) The vendor shall submit the quotation enquiry in the Institute's prescribed format [Annexure-I] and price must be quoted item-wise separately, else the quotation will be treated as non-responsive.
- 3) Quotation shall remain valid for 90 days from the date of opening the quotation.
- 4) Vendor should submit copy of **GST Registration Certificate, Xerox Copy of PAN, Certificate of Firm's Registration, Authorization certificate** from their principal/ Original Equipment Manufacturer (OEM) etc. with your offer failing which the quotation will not be entertained.
- 5) **Authorization Certificate:** Sole Selling Agent / Authorized Distributors / Dealers /Suppliers are eligible to bid on behalf of Original Equipment Manufacturers (OEM) provided they submit requisite authorization and self certification from the (OEM). The bidder should enclose the latest Authorization Certificate from the (OEM).
- 6) **Taxes** GST or any other taxes as per Govt. norms shall be applicable from time to time. The % of Tax must be indicated separately in the quotation.

- 7) **Items for Research Purpose: Concessional GST @ 5% will be applicable for purchase of goods viz Scientific & Technical instruments and other required for the Research purposes only.** This is in accordance of Govt. of India, Ministry of Finance Notification 45/2017-Central Tax (Rate) dated 14<sup>th</sup> November, 2017 and 47/2017-(Integrated Tax (Rate) dated 14<sup>th</sup> November, 2017, and DSIR No. TU/V/RG-CDE (190)/2016 Dated: 20.02.2018. The description of goods is given in Govt of India notification dated 14<sup>th</sup> November, 2017 mentioned above. A certificate in this respect will be issued to the vendor by the Institute.
- 8) **For Import Item** – Govt. of India Ministry of Science & Technology, DSIR, New Delhi vide letter No TU/V/RG-CDE(190)/2016 dated 20/02/2018 has issued Certificate of Registration to VNIT, Nagpur for purposes of availing customs duty exemption in terms of Govt. Notification 51/96-Customs dated 23<sup>rd</sup> July, 1996 and Central Excise duty exemption in terms of Govt. Notification No 10/97-Central Excise dated 1<sup>st</sup> March, 1997 as amended from time to time and this registration is valid up to 31.08.2021. This document will be provided by the Institute. The supplier who has quoted the price in Rupees, but importing the items from the foreign country by sea has to sign the High Sea Sale Agreement. Against High Sea Sales Agreement, GST is not applicable; Custom Duty is applicable under Notification No 51/96. The charges towards HSS agreement, if any, will have to be borne by the firm.
- 9) Each Vendor shall submit only one quotation. Vendor shall furnish price & other information in the prescribed Price Bid format. Each document submitted with quotation should be duly attested & stamped by the vendor, failing which submitted quotation will be treated as Non-Responsive. Incorrect, Incomplete or Conditional Quotation(s) will not be accepted and will be treated as Non-Responsive.
- 10) If any document of tender /quotation enquiry, certificate etc. submitted by the vendor is observed to be incorrect /false/ forged/having ambiguity, intentionally or un-intentionally at any stage, the tender/quotation submitted by the vendor is liable to be treated Disqualified/Non-Responsive. Further the Institute reserves the right to initiate any action as deemed fit in such case against the vendor including the action of blacklisting of firm.
- 11) The vendor shall take full responsibility in case of any damage, loss or injury to any person / building or to any part thereof, and shall repair / and make good the loss, at his own cost.
- 12) Information broacher, product catalogue, if any must be accompanied with the quotation clearly indicating model quoted for.
- 13) Vendors should offer special educational discount to the Institute on quoted rates.
- 14) In case of price quoted in foreign currency, its conversion rate to INR on the date of opening the quotation/tender shall be considered.
- 15) **Guarantee or Warranty:** As per Company's (OEM) standard **Guarantee / Warranty** shall be applicable to the supplied goods. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at VNIT by the vendor.
- 16) **Delivery Period:** Vendor will be required to give Delivery of the Goods within **four (4) Weeks** from the receipt of P.O. Goods shall be supplied / delivered by the Vendor at the installation site in concerned department of VNIT Nagpur at free of cost on working days. Vendor shall deliver the material strictly as per the delivery schedule given in P.O., failing which **Liquidated Damages Clause** will be applicable.

17) **Liquidated Damages Clause:**

- (a) The Director, V.N.I.T. Nagpur reserves the right to recover from the vendor, liquidated damages a sum equivalent to  $\frac{1}{2}$  percent of the price of the undelivered stores at the stipulated rate for each week or part thereof, during which the delivery of such stores, may be delayed subject to, a maximum limit in the case of an order exceeding Rs. One Lakh in value, up to **10** percent and in the case of an order not exceeding Rs. One Lakh in value up to **5** percent of the stipulated price, of the stores so undelivered.
- (b) To purchase elsewhere, on vendor's accounts, at his risk, the stores etc. undelivered, or other of a similar description, where others exactly employing with the particulars, are in the opinion of the Director, Visvesvaraya National Institute of Technology, Nagpur are not readily procurable, without cancelling the contract, in respect of consignment not yet due for delivery.
- (c) To cancel the contract.

In the event of action being taken under (b) or (c) above, the vendor shall be liable to make good for any loss, which the Institute may sustain, by reason of higher price of stores, so purchased or the otherwise, howsoever :

The decision of the Director, Visvesvaraya National Institute of Technology, Nagpur shall be final as regards to the acceptability of stores supplied by the seller and the Director, Visvesvaraya National Institute of Technology, Nagpur, shall not be required to give any reason in writing or otherwise at any time for the rejection of stores.

- 18) **Payment:** Institute will release the **full & final payment on delivery of items and its successful installation/ demonstration at concerned department / laboratories of VNIT Nagpur.** The vendor will be required to submit the bills in triplicate along with delivery memo. Payment will be made through Crossed Cheque / ECS / NEFT / RTGS. For electronic payment mode vendor's bank details on Firm / Company letter head will be required.
- 19) Quotations received after the last date of submission will not be considered.
- 20) Any amendment or corrigendum regarding this enquiry will be issued on the Institute website ([www.vnit.ac.in/stores](http://www.vnit.ac.in/stores)).
- 21) Director, VNIT, Nagpur reserves the right to increase/decrease the quantity of goods at any stage.
- 22) Director, VNIT, Nagpur reserves the right to accept or reject or cancel any or all enquires or quotations/PO at any stage without assigning any reason thereof.
- 23) **It will be presumed that the vendor has read carefully all the above mentioned instructions, terms & conditions and abide by same.**
- 24) The Quotation in sealed envelope super-scribed with "**Quotation Enquiry for procurement of Item Name**" for "**Department Name**" and to be sent to Joint Registrar (Stores), Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur 440 010, Maharashtra (India). The quotation can also be submitted in person in the "**Quotation/Tender Box**" at the Stores Section, Old Library Building, 1<sup>st</sup> Floor, VNIT, Nagpur - 440010 on any working day.

Yours truly,

  
Joint Registrar (Stores)  
12/3/19

**"FORMAT OF QUOTATION ENQUIRY"**

Ref No.: VNIT/STR/ME/VRK/ASD/2018-19/223/1364

Date: March 12, 2019

Sr. No	Name of the Item	Specifications	Qty	Basic Rate P.U. (Rs.)
1.	Hydrostatics Bench	<p><b>Technical Details:</b>                      Direct reading barometer with compensated silvered metal scale range 585 to 790mm subdivided in 1mm intervals includes thermometer                      100 mm dial pressure gauge: Range 0 to 200 kN/m<sup>2</sup> (kPa) equivalent head of water in metres                      Dead weight pressure gauge calibrator: With 2 x 5 kg, 1kg and 2.5kg weights                      Universal hydrometer range 0.70 to 2.00 subdivided into 0.01 intervals                      Falling sphere viscometer: 40mm tube diameter                      Hydrostatic pressure apparatus: Comprises counter-balanced precision quadrant pivoted on knife edges at its centre of arc                      Level balance: 178mm diameter pan, hook for use in buoyancy experiments anti-parallax cursor, double scale 0 to 0.25kg and 0 to 1.00 kg</p>	01	
2.	Pressure Measurement Apparatus	<p><b>Measurement devices:</b></p> <ul style="list-style-type: none"> <li>• Single well manometer.</li> <li>• Differential Manometer.</li> <li>• Inclined U Tube Manometer.</li> <li>• Vacuum Gauge.</li> <li>• Pressure Gauge.</li> </ul> <p><b>Specifications:-</b></p> <ul style="list-style-type: none"> <li>• Acrylic Differential manometer 250-0-250mm.</li> <li>• Single well Manometer 0-25mm (Limb) 0-30mm (Cup)</li> <li>• Inclined U Tube manometer- 0-30mm (Limb) and 0-30 mm (Inclined Limb)</li> <li>• Pressure gauge- 0-4 Kg/cm<sup>2</sup></li> <li>• Vacuum Gauge- 0-760 mmHG</li> <li>• Flow control valve to change Pressure.</li> <li>• Sump tank- 900 X 350 X 350 mm</li> <li>• Motor for recalculating type unit. - 0.5H.P. Self-Priming</li> <li>• Stop clock.</li> </ul>	01	
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4.	Flow Visualization Channel	<p><b>Range of Experiments:</b></p> <ul style="list-style-type: none"> <li>• Demonstration of streamline flow pattern for ideal flow around immersed bodies such as a cylinder, aerofoil and bluff bodies (such as bus model etc.).</li> <li>• Demonstration of streamline flow pattern for ideal flow in channels and at boundaries – convergent channel, divergent channel, convergent-divergent channel, 90 deg bend, sudden enlargement, sudden contraction, step and replacement of a streamline by a solid boundary.</li> <li>• Demonstration of streamline flow patterns for ideal flow associated with sources and sinks formation.</li> <li>• Demonstration of flow separation from surfaces.</li> </ul> <p><b>Technical Specifications:</b></p> <ul style="list-style-type: none"> <li>• The working section with inlet &amp; outlet tank.</li> <li>• Actual viewing area: 500mm X 700mm.</li> <li>• Sinks and sources located on the bottom plate.</li> <li>• Dye tank with flow control</li> <li>• Dye injection system, (Set of needles)</li> <li>• Models – cylinders, aerofoils,</li> <li>• Base Frame with leveling screws.</li> <li>• Piping Flow control valve and bypass valve.</li> </ul>	01	
		Educational Discount		
		Total Basic Cost F.O.R. V.N.I.T. Nagpur		

**Note- Price must be quoted item-wise separately**

**[A] DUTIES & TAXES (if applicable):**

- |    |   |   |                  |
|----|---|---|------------------|
| 1. | GST @ 5%  | : | Rs. _____        |
| 2. | Freight/ Transportation   | : | Rs. _____        |
| 3. | Packing & Forwarding  | : | Rs. _____        |
| 4. | Insurance @ _____%  | : | Rs. _____        |
| 5. | <b>Final Offer (Including Installation Charges &amp; Taxes) FOR VNIT Nagpur</b> | : | <b>Rs. _____</b> |

**[B] Others Details (Enclosed) Mandatory**

- |    |                                     |   |               |
|----|-------------------------------------|---|---------------|
| 1. | Specification as per Requirements   | : | Yes / No      |
| 2. | Company Standard Warranty/Guarantee | : | * _____ Years |
| 3. | Delivery Period within 4 Weeks      | : | Yes / No      |
| 4. | Firms Registration Certificate      | : | Yes / No      |
| 5. | Authorization Certificate           | : | Yes / No      |
| 6. | GST Registration Certificate        | : | Yes / No      |
| 7. | Xerox copy of PAN                   | : | Yes / No      |

**Note: Price/Commercial Bid & other details should be furnished as per Institute's prescribed format if failed, the Price / Commercial Bid is treated as unresponsive and will be disqualified.**

The Firm/Company agrees to supply the above items for **final offer price (Rs. \_\_\_\_\_/-**  
**[In Words Rs.....)** inclusive of duties & taxes at [A] above within the period specified in the Invitation for Quotations.

**Signature of Bidder with Seal & Date**