



तेजपुरविश्वविद्यालय/ TEZPUR UNIVERSITY

(केंद्रीयविश्वविद्यालय/A Central University)

कुलसचिवकार्यालय/OFFICE OF THE REGISTRAR

तेजपुर-784028 :: असम/ TEZPUR-784028 :: ASSAM

**NOTICE INVITING BID**

**TU/GeM/BoQ-Bid (119)/2022-23/2210** Date **21/10/2022**

Bids in **02 Bid System (Technical and Financial)** are invited on **GeM** from reputed manufacturers/authorized dealers for supply of **Laboratory Equipment for Hydraulics Lab** for Dr. Kamal Uddin Ahamad, Department of Civil Engineering of Tezpur University.

Please read the Bid document carefully before participating. It shall be deemed that submission of bid by the bidder has been done after their careful study and examination of the Bid terms with full understanding to its implications. Any lack of information shall not in any way relieve the bidder of its responsibility to fulfill its obligations under the Bid.

The University will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, the Purchase Order. Fraudulent Practice means a misrepresentation of facts in order to influence a procurement process and includes collusive practice among bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive Tezpur University of the benefits of free and fair competition. Corrupt Practice means offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of this purchase execution.

For any queries/doubt please contact the Stores & Purchase Section (e-mail: [snp@tezu.ernet.in](mailto:snp@tezu.ernet.in)) or in the email id mentioned in the GeM Bid.

**GENERAL TERMS & CONDITIONS:**

1. **Rates:** Rates quoted should be on **FOR Tezpur University, Napam, Tezpur, Door Delivery Basis**, for indigenous items and **CIP Tezpur University, Napam, Tezpur or Delivered Duty Paid**, for imported item. Failure to comply with this term may lead to rejection of the quotation.
2. Bidders/Tenderers are to ensure that they are GST compliant and that their quoted tax structure/rates are as per GST law. The rates should be exclusive of taxes and applicable tax percentage should be clearly indicated. Financial/Price Bid format where taxes cannot be mentioned separately, in such cases, the percentage of taxes applicable should be mentioned in the Technical Bid document.
3. **Validity of Quotation:** Quoted rates must be valid for at least **180 days** from the last date of submission of quotation.
4. Applicable levies, surcharge and discounts should be clearly indicated item wise.
5. The rates should be quoted along with supporting documents of specifications and technical features and list of users, wherever applicable.
6. **Literature a must:** All the quotations must be supported by technical leaflet/literature and the specifications mentioned in the quotation must be reflected/ supported by such technical leaflet/ literature. The model and specifications quoted should **invariably be highlighted** in the leaflet/literature for easy reference.
7. **After Sales Service Guidelines:** In case of imported goods, bidders should clearly state the detailed address, contact number and email ids of 'after sales service centre' preferably in Tezpur/Guwahati, India or any place in Assam without which their offers shall be liable for rejection. Service against any complaint must be provided within 24hours.

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8. **Dealership Certificate:** Dealers or Agents quoting on behalf of Manufacturer must upload valid dealership certificate.
9. **Quality Certificates:** Valid certificate to prove that the products are genuine and of international standard, as mentioned below, must be uploaded: (a) Manufacturer's certificate; (b) ISO/ISI certificate.
10. **Genuine Pricing:** Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this item has been sold, particularly to Universities/IITs/Institutes and other Government Organization.
11. **Payment:** 100% payment after successful delivery, installation and commissioning (if required in the scope of supply) and acceptance by the user.
12. **PENALTY FOR DELAYED DELIVERY:** The date of delivery should be strictly adhered to. In the event of delayed delivery, installation & commissioning, the vendor shall be liable for a penalty deduction as per prevailing rule.
13. **As per Gol Notification dated 14.11.2017 GST % for Public Funded Research Institution or a University has been reduced to 5%. Hence, rate of GST may be charged as per reduced rate. Exemption Certificate will be provided on request.**
14. The University is exempted from paying Custom and Excise duty.
15. Warranty/Guarantee applicable if any, period should be specifically mentioned in the quotation.
16. Irresponsive/incomplete quote will be rejected.
17. **Conditional tenders not acceptable:** All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Printed conditions mentioned in the tender bids submitted by vendors will not be binding on Tezpur University.
18. **Enquiry during the course of evaluation not allowed:** No enquiry shall be made by the bidder(s) during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative (Tezpur University) can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full co-operation. The bidders may also be asked to arrange demonstration of the offered items, in a short period notice, as such the bidders have to be ready for the same.

**Termination for default:** Default is said to have occurred

- a. If the equipment or any of its component is found having poor workmanship, faulty designs, poor performance and bad quality of materials used.
- b. If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by Tezpur University.
- c. If the supplier fails to perform any other obligation(s) under the contract.
- d. Under the above circumstances Tezpur University may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, Tezpur University may at its discretion also take the following actions: Tezpur University may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate Tezpur University for any extra expenditure involved towards goods and services obtained. Besides, the Vice-Chancellor, Tezpur University, and reserves the right to impose any other form of penalty as deemed fit including blacklisting of the vendor.

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19. **Selection criteria:**

**i. Evaluation Criteria:**

To ensure that each bidder has the necessary qualifications and resources to full fill its obligations under the contract, the following criteria shall be evaluated. The Eligibility, Financial, Experience & Support criteria should be passed before the technical criteria. Technical criteria will be evaluated and ranked by the award of ACCEPT and/or REJECT. Only the ACCEPTED vendors will be considered for price bid. In case a joint venture makes a bid, any one of the members of the joint venture need to be qualified for each of the criteria mentioned below.

**ii. Eligibility Criteria:**

- a. The bidder or the OEM should not be blacklisted by Tezpur University or any other Educational /R&D/ PSU/ Govt organizations. A certificate or undertaking to this effect must be submitted.

**iii. Technical Criteria**

Technical bids will be evaluated and ranked by the award Accepted & Rejected. The price bids of Accepted vendors would then be considered by the concerned Purchase Committee of the institute

**Delivery Period**

20. The delivery installation and commissioning should be completed with **45 Days** of the award of BID without any deviation.

Assistant Registrar-GA, i/c  
Tezpur University



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**Technical Specifications cum Compliance Report**  
**(To be submitted on Company's/Firm's Letterhead Signed and Sealed)**

**Item: Lab Equipment**

SI No.	Particulars	Description
1	Discharge through Venturimeter and Orificemeter Test setup	<ul style="list-style-type: none"><li>• Venturi meter: Body Material Acrylic, compatible to 1" Dia. Pipe.</li><li>• Orifice meter : Body Material Acrylic, compatible to 1" Dia. Pipe. Orifice plate made of Stainless Steel.</li><li>• Water Circulation : ½ HP Pump, Crompton/Standard make.</li><li>• Flow Measurement : Using Measuring Tank with piezometer Capacity 25 Ltrs.</li><li>• Sump Tank : Capacity 50 Ltrs.</li><li>• Stop Watch : Electronic</li><li>• Pressure measurement: By Pressurized differential pressure manometer</li></ul> <p>Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.</p> <ul style="list-style-type: none"><li>• Tanks should be made of Stainless Steel.</li><li>• An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. should be provided along with the Apparatus.</li><li>• The whole set-up should be well designed and arranged on a rigid structure painted with industrial PU Paint.</li></ul> <p>Electricity Supply: Single Phase, 220V AC, 50 Hz, 5-15 Amp. Combined socket with earth connection. Earth voltage should be less than 5 volts.</p>
2	Losses Due to Pipe fitting and Pipe friction	<ul style="list-style-type: none"><li>• Sudden Enlargement : From 15mm to 25mm</li><li>• Sudden Contraction : From 25mm to 15mm.</li><li>• Bend : ½"</li><li>• Elbow : ½"</li><li>• Ball valve : ½"</li><li>• Gate valve : ½"</li><li>• Pipe Test Section : (i) Dia ½", Pr. Taping Length: 1m, Material G.I.</li><li>• Pipe Test Section : (ii) Dia ¾", Pr. Taping Length: 1.25m, Material G.I.</li><li>• Water Circulation : ½ HP Pump,</li></ul>

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		<p>Crompton/Standard make.</p> <ul style="list-style-type: none"><li>• Flow Measurement : Using Measuring Tank with Piezometer, Capacity 25 Ltrs.</li><li>• Pressure Drop Measurement : Pressurized Differential Pressure manometer</li><li>• Sump Tank : Capacity 50 Ltrs.</li><li>• Stop Watch : Electronic</li></ul> <p>• Control Panel Comprises of : Standard make On/Off Switch, Mains Indicator, etc.</p> <p>• Tanks should be made of Stainless Steel.</p> <p>• An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. should be provided along with the Apparatus.</p> <p>• The whole set-up should be well designed and arranged on a rigid structure painted with industrial PU Paint.</p> <p>Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. Combined socket with earth connection. Earth voltage should be less than 5 volts.</p>
3	<b>Bernoulli's Theorem Apparatus</b>	<ul style="list-style-type: none"><li>• Test Section: Convergent and Divergent section, Material Acrylic.</li><li>• Piezometer Tubes: Material P.U. Tubes (7 Nos.)</li><li>• Water Circulation: ½ HP Pump, Crompton/Standard make.</li><li>• Flow Measurement: Using Measuring Tank with Piezometer, Capacity 25 Ltrs.</li><li>• Sump Tank: Capacity 70 Ltrs.</li><li>• Inlet Tank: Capacity 20 Ltrs. with fixed overflow arrangement.</li><li>• Stop Watch: Electronic.</li><li>• Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.</li><li>• Tanks should be made of Stainless Steel.</li><li>• An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. should be provided along with the Apparatus.</li><li>• The whole set-up should be well designed and arranged on a rigid structure painted with industrial PU Paint.</li></ul> <p>Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. combined socket with earth connection. Earth voltage should be less than 5 volts.</p>
4	<b>Impact Of Jet On Vanes</b>	<ul style="list-style-type: none"><li>• Target: Flat Plate and Hemispherical Cup, 1 No. each</li><li>• Nozzle: Material Brass</li></ul>

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		<ul style="list-style-type: none"><li>• Jet Enclosure: Made of Acrylic</li><li>• Counter weights: One set of dead weights.</li><li>• Water Circulation: FHP Pump, Standard make</li><li>• Flow Measurement: Using Measuring Tank with piezometer, Capacity 25 Ltrs.</li><li>• Sump Tank: Capacity 50 Ltrs.</li><li>• Stop Watch: Electronic.</li><li>• Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.</li><li>• Tanks should be made of Stainless Steel.</li><li>• An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. should be provided along with the Apparatus.</li><li>• The whole set-up should be well designed and arranged on a rigid structure painted with industrial PU Paint.</li></ul> <p>Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. combined socket with earth connection. Earth voltage should be less than 5 volts.</p>
5	<b>Metacentric Height Apparatus</b>	<ul style="list-style-type: none"><li>• Pontoon: Material: Acrylic, provided with Horizontal Guide Bar for sliding weight</li><li>Removable Strips</li><li>Pointer with Scale</li><li>Moveable hanger</li><li>• Water Tank: Size 550 x 500 x 400 mm (approx.)</li><li>• Transparent Window: Made of Glass/Perspex.</li><li>• A set of weights should be supplied with the apparatus.</li><li>• Tank should be made of Stainless Steel.</li><li>• Pendulum and graduated scale are to be incorporated for accurate measurement of Tilt angle.</li></ul>
6	<b>Pitot Tube Setup</b>	<ul style="list-style-type: none"><li>• Pitot Tube: Material Copper of compatible size fitted with venire scale</li><li>• Test Section: Material Clear Acrylic, compatible to 1" Dia. Pipe</li><li>• Water Circulation: ½ HP Pump, Crompton/Standard make.</li><li>• Flow Measurement: Using Measuring Tank with Piezometer (Capacity 25 Ltrs.)</li><li>• Sump Tank: Capacity 50 Ltrs.</li><li>• Stop Watch: Electronic.</li><li>• Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.</li><li>• Tanks should be made of Stainless Steel.</li><li>• An ENGLISH instruction manual consisting of</li></ul>

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		<p>experimental procedures, block diagram etc. should be provided along with the Apparatus.</p> <ul style="list-style-type: none"><li>• The whole set-up should be well designed and arranged on a rigid structure painted with industrial PU Paint.</li></ul> <p>Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. combined socket with earth connection. Earth voltage should be less than 5 volts.</p>
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