

No. 11/1/2011/SP

Dated: 05/04/2021

TENDER ENQUIRY

Sealed quotations are invited by the Principal Government Polytechnic Panaji, Goa, super-scribed as "**QUOTATION FOR SUPPLY, INSTALLATION & COMMISSIONING OF HYDRAULIC BENCH**" due on **30/04/2021** upto 3.00 p.m. for the items listed in enclosed Annexure.

The quotations will be opened on the same day at 3.30 p.m. Quotations are accepted subject to our terms and conditions only. Orders placed, if any, shall be subject to our standard terms and conditions, which will be supplied either on request or before enrolment as supplier to Government Polytechnic Panaji.

All items shall conform to our standard specifications only .

1. **Delivery** :- Unless specified in the supply order otherwise all Stores ordered should be delivered at Govt. Polytechnic Panaji, within two weeks from the date of order. Late supply may be accepted subject to penalty.
2. Rates quoted shall be valid for a period of **90 days** .
3. **Taxes/Freight/Transport/Hamal** charges etc. if applicable should be indicated separately failing which it will be deemed that rates quoted are inclusive of all such taxes/charges etc.
4. **Bills** :- shall be submitted in triplicate original being stamped and pre-receipted, in the name of Principal, Government Polytechnic Panaji
5. **Payment** : - Will be ensured promptly on receipt of the stores and after inspection at Govt. Polytechnic Panaji. However, in case of unavoidable delays no interest will be payable on any grounds. Parties requesting payment through Bank/Advance payment or payment against delivery will not be considered.
6. **Rejection of quotations** :- Incomplete not clear quotations are liable to be rejected Principal; Government Polytechnic Panaji also reserve the right to reject any or all quotations called without assigning any reasons.
7. Parties are required to furnish the **Security Deposit** equivalent to 3% of ordered value in the form of D.D. in favour of the Principal, Govt. Polytechnic Panaji, payable in Panaji in case the supply order is placed on you to cover the Warranty/Guarantee Period.
8. **Brochures/product literature** for the items quoted shall be enclosed.

ANNEXURE ENCLOSED

Yours faithfully,

(M.R. Fernandes)

Principal

ANNEXURE

Sr. No	Detailed specifications	Qty.
01	<p>Hydraulic bench with attachments: The unit should be water recirculation type designed with adequate strength and powder coated structure provided with following items: Centrifugal pump: 1 Hp self priming, 200-240 VAC, 50 Hz single phase power supply. Sump tank : Stainless steel-304 of 100-120 Ltr. capacity with drain connection. Measuring tank: Stainless steel-304 of 25Ltr capacity provided with level indicator and scale. The unit should be provided with U-tube differential mercury manometer with scale for measurement. The top tray should be of sufficient strength to provide working surface for supporting attachments as given below:</p> <p>1.Apparatus for Bernoulli's theorem Manometer Range : 0-400 mm •Number of Manometric Tubes : 7 to 10 •Test Length : 200 mm Circular Acrylic Bar •Upstream size: 30- 35 mm Diameter. •Throat diameter size: 20-25 mm Diameter.</p> <p>2.Venturimeter and Orificemeter: Venturimeter. Throat diameter 20 mm, pipe dia 30mm, convergent cone 20° and divergent cone 7°. Material clear Acrylic with pressure tapings for connecting to differential manometer. Orificemeter of pipe diameter 30mm, plate diameter 20mm. Material acrylic with pressure tapings.</p> <p>3.Minor head loss Measurement: Pipe fittings: Gun meta Gate valve 15mm dia., sudden contraction from 30mm to 15mm and sudden expansion from 15mm to 30mm with necessary tapings across fittings.</p> <p>4. Flow over Notches: Rectangular cross section open channel 20 cm (width)×25cm (height) with inlet, outlet and hook gauge for measuring water level over notch of compatible size. Gun metal notches of Rectangular, Trapezoidal and 90° V notch types.</p> <p>5.Pitot tube module: Pitot tube of standard design and compatible size made of copper/stainless steel with Vernier scale. The pipe section should be of acrylic material of required size to be connected to hydraulic bench</p> <p>6.Reynolds apparatus: Acrylic tube of Dia.25mm and length compatible size. to study different flow conditions. *Flow control valve to change Discharge. *Transparent pizometer tubes with scale to measure head. *Set of- [Needle-1Qty, Dye supply pipe with Regulator-1 Qty, Dye Bottel-1 Qty]</p> <p>7. Flow through orifice and mouthpiece: Sharp edged acrylic orifice of 10mm diameter. Mouthpiece acrylic type 10mm with L/D =3. The apparatus should be provided with suitable scale for measurement of horizontal and vertical distances for jet.</p>	01 no.