



GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD,  
CHHATRAPATI SAMBHAJINAGAR

(An Autonomous Institute of Govt. of Maharashtra)  
Railway Station Road, Osmanpura, ChhatrapatiSambhajinagar.  
"In Pursuit of Technical Excellence"

☎ - office: (0240)2366101,2366102, 366111

e-mail – office.gceaurangabad@dtmaharashtra.gov.in web : www.geca.ac.in



GECCS/CE Store/2024-25/410

QUOTATION FORM

Date :-

30 JAN 2025

To,

- 1- Institute Website
- 2- Notice Board
- 3- Institute copy

Sub:- Quotation for Fluid Mechanics lab equipment

Sir, You are requested to send your quotations on following conditions. in sealed envelope for the supply of the item listed herewith mention letter no & date of opening on the quotations on the envelope. Submit the same on or before Date: 30/01/2025 up to 03.p.m

Sr.No	Name of items with specification	Quantity
01	<p><b>LOSSES IN PIPES APPARATUS ( RE-CIRCULATION TYPE ) :-</b> <u>SPECIFICATIONS</u></p> <p>1. Sump Tank : Capacity - 140 ltrs.( Approx.) (0.9 L x 0.4 B x 0.4m H) Material - M.S. Sheet with FRP Lining from inside and powder coated exterior.</p> <p>2. Measuring Tank : Capacity - 30 ltrs. ( Approx.) with piezometric tube. Material - M.S. Sheet with FRP Lining from inside and powder coated exterior.</p> <p>3. Diff.Manometer : For measuring pressure head. (without Mercury)</p> <p>4. Stop Watch. : 1 No.</p> <p>5. Pipe circuit : 15mm and 25mm dia.</p> <p>6. Pipe fittings : Sudden enlargement, contraction, bend, elbow, control valves ( 2 Nos. - Gate valve)</p> <p>7. Monoblock Pump : 0.5 HP, Single phase, 230 V.A.C. with bye-pass valve and suction piping. Make : Laxmi Coimbatore / Ruby / Equivalent.</p> <p>8. A hollow square pipe frame is made for fitting the tanks, manometer and pump.</p>	01



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02	<p style="text-align: center;"><b>NOTCH APPARATUS ( RE-CIRCULATION TYPE )</b></p> <p><b>SPECIFICATIONS</b></p> <p>1. Open Channel : Size - 1.2 (L) x 0.20 (B) x 0.20 m (Ht) (Approx.) Material - M.S. Sheet with FRP Lining from inside and powder coated exterior.</p> <p>2. Sump Tank : Capacity - 140 ltrs. (Approx.) (0.9L x 0.4B x 0.4H mtr.) Material - M.S. Sheet with FRP Lining from inside and powder coated exterior.</p> <p>3. Measuring Tank : Capacity - 30 ltrs. ( Approx.) Material - M.S. Sheet with FRP Lining from inside and powder coated exterior. With piezometric tube and scale.</p> <p>4. Mono-block Pump : 0.5 HP, Single Phase, 230 V.A.C. with bye pass arrangement. Make : Laxmi Coimbatore / Ruby / Equivalent.</p> <p>brass plate : 5. Notches made up of a) Rectangular. b) V Notch - 60° (Deg.) c) Trapezoidal.</p> <p>6. Hook Gauge. 7. Flexible Hose pipe for connecting the basic unit to the Sump Tank. 8. Control valve for controlling the flow rate.</p> <p>9. Stop watch.</p> <p>10. A hollow square pipe frame is made for fitting the tanks, manometer and pump.</p>	01
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03	<p><b>PIPE FRICTIION APPARATUS (Re-Circulation Type)</b></p> <p><u>SPECIFICATIONS</u></p> <p>1. Pipes : ½” Dia. of MS, GI &amp; SS connected to a common manifold.</p> <p>2. Sump Tank : Capacity - 140 ltrs. (Approx.) (0.9L x 0.4H x 0.4H mtr.) Material - M.S. Sheet with FRP Lining from inside and exterior powder coated.</p> <p>3. Measuring Tank : Capacity - 30 ltrs. ( Approx.) Material - M.S. Sheet with FRP Lining from inside and exterior powder coated. Piezometric tube for flow measurement</p> <p>4. Mono-block Pump : Capacity - 0.5 HP, Single Phase, 230VAC Make : Laxmi Coimbatore / Ruby / Equivalent.</p> <p>5. 'U' tube manometer for measuring pressure loss. (<b>without Mercury</b>) Material : Acrylic.</p> <p>6. Control valves for controlling the flow rate.</p> <p>7. A hollow square pipe frame is made for fitting the tanks, manometer and pump.</p> <p>8. Stop Watch.</p>	01
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## TILTING FLUME - 4 METERS LONG ( RE- CIRCULATION TYPE )

### 1. TILTING FLUME

\* Size ( L x B x H ) : 4m. x 0.25m. x 0.30m. ht. (Total Lt : 5.5M approx.)

\* Material : M. S. Sheet - 18swg. Thick. Or SS sheet.

\* Observation : 3m. x 0.25m. ht. On either side of the middle of flow channel. Section Acrylic sheet of 6mm. Thick.

\* Baffle : 3 Nos. made out of perforated sheet.

2. GATE : 2 Nos

\* Material : MS / SS Sheet, 3mm. Thick.

\* Arrangement. : Screw type, wheel with handle.

### 3. SLOPE ARRANGEMENT

\* Slope : 2" upwards and 4" downwards.

\* Jack : Screw type Manually operated with handle.

### 4. POINT GAUGE

\* Size : 350mm. Height, 0.1mm. resolution.

Material : Aluminium bar.

### 5. MEASURING TANK FOR FLOW MEASUREMENT

\* Material : M.S. / S.S.

### 6. MODELS

#### A) V NOTCH

\* Size : 45° x 80mm. Deep.

\* Material : Brass, 3mm. Thick.

#### B) RECTANGULAR NOTCH

\* Size : 30mm x 80mm deep.

\* Material : Brass, 3mm. Thick.

#### C) SHARP CRESTED WEIR

\* Size : 3mm. Thick

\* Material : Brass

#### D) BROAD CRESTED WEIR

\* Size : Suitable for above flume.

\* Material : MS / SS.

#### E) OGEE WEIR.

#### F) VENTURI FLUME

\* Size : 800mm long x 150mm. Ht.

\* Material : M.S. / SS.

### 7. SUMP TANK

\* Overall size : 1.5M x 1.0M x 0.5M Ht. ( Approx.)

\* Material : M.S. / SS.

8. PUMP WITH MOTOR : Mono-block, single phase, 1.5 HP with necessary piping, control valves.

### 9. BASE FRAME.

\* Overall size : 5.5m. x 1.0m. approx.

\* Material : M. S. Angle - 50 x 50 x 6mm.

04

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<b>PRESSURE MEASUREMENT APPARATUS ( RE-CIRCULATION TYPE )</b>		
05	<p><b>SPECIFICATIONS</b></p> <p>1. Sump Tank : Made from thick MS sheet with FRP lining from inside. Capacity - 110 ltrs. (Approx.)</p> <p>2. Mounting stand made out of M.S. Angle for fixing the devices.</p> <p>3. Monobloc Pump : 0.5 HP, Centrifugal Pump, single phase, 230VAC.</p> <p>4. Measuring Devices: 01. Single Well Manometer. 02. Differential Manometer. 03. Sensitive Manometer 04. Pressure Gauge 05. Vacuum Gauge.</p> <p>5. Necessary Piping circuit with Pressure tapings.</p>	01
06	<p><b>IMPACT OF JET APPARATUS ( RE-CIRCULATION TYPE )</b></p> <p><b>SPECIFICATIONS</b></p> <p>1. Sump Tank : Capacity - 140 ltrs. ( Approx. ) (0.9 L x 0.4B x 0.4 H mtr.) Material – M.S. Sheet lined with FRP Lining from inside and powder coated exterior. 18swg thickness.</p> <p>2. Measuring Tank : Capacity - 30 ltrs.( Approx. ) with piezometric tube. Material – M.S. Sheet lined with FRP Lining from inside and powder coated exterior. 18swg thickness.</p> <p>3. Transparent Cylinder : 25cm. Dia. x 30cm. Ht. With top cover having weigh beam fitted with vane fixture clamping.</p> <p>4. Test Vanes : 2 Nos. - (a) Flat Vane, (b) Cup Vane.(Semi circular – 180° ) Material - Aluminium.</p> <p>5. Jockey weight &amp; scale</p> <p>6. Nozzle - 10mm dia - 1 No. fitted at the bottom of the cylinder.</p> <p>7. Mono-block Pump : Capacity - 0.5 HP, Single Phase, 230 V. with required bye-pass valve and suction piping Make : Laxmi Coimbatore / Ruby / Equivalent.</p> <p>8. Stop watch.</p> <p>9. A hollow square pipe frame is made for fitting the tanks, manometer and pump.</p>	01

(\*Quantity may be increased or decreased as per requirement)

  
(Dr.S.S.Damhare)

PRINCIPAL

GOVERNMENT COLLEGE OF ENGINEERING,  
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**Conditions of the quotations:-**The rate should be quoted F.O.R. Chhatrapati Sambhajnagar & along with packing forwarding freight etc. Charges

(A) The firm should registered as per GST Act./appropriate state govt.of Maharashtra act

1. The rate quoted should be valid for minimum Six Month from the date of opening of the quotation.
2. If supply order placed with you, The goods Delivery (as applicable )period should be maximum two weeks from receipt of supply order, otherwise you should be very clearly mentioned the delivery Period in your quotation.
3. Your items should be quoted as per our serial number only.
4. The rate should be quoted as per our specification otherwise your items having specifications are different from those of ours should not be quoted. But the rates of your items having nearest specification should be quoted. Minimum packing size may be mentioned if required.
5. The leaflets like illustrated, descriptive technical literature which will give the information about the item such as more specifications, make , type, pictorial view, name of manufacturer, origin of the company etc. should be specified with the quotation of the relevant full information should be mentioned clearly.
6. The samples should be supplied if required.
7. The undersigned Reserve the right not to consider or the quotation in absence of the convincing, satisfactory information about the item.
8. In case of machinery, equipment, Apparatus instrument etc. the operating instructions and maintenance manual, demonstration etc. may be required before finalizing the order for supply of the items
9. The undersigned Reserve the right without giving any reason (a) to reject the quotation in part of full (b) to extend the date of opening the quotation and (c) to cancel the quotation in part or in full
10. If the quotation is accepted the items should be supplied to the institute on or before the stipulated period or within the period decided by mutual consultation otherwise the order for supply of the items to the store shall be treated as cancel unless the extension for delivery period is agreed to by the undersigned
11. If the items Delivered late without prior approval from the undersigned a sum equivalent to the half percent per week or part thereof of the net cost of the late delivered item beyond the stipulated period will be deducted from the bill
12. The bill in the triplicate of the items supplied should be sent directly to the undersigned by hand delivery or by registered post account due.
13. Damaged, deficient, not in accordance with the accepted specifications and unsatisfactory items will have to be collected by the supplier at the cost and risk or the appropriate cost for such shortcomings may be deducted from the bill by mutual Consultation.
14. The payment of the bill will be released only after the delivery of the stores at the office in good condition and subject to inspection, testing and satisfactory compliance in accordance to the specifications as decided i.e. only after final acceptance of the goods.
15. You should be able to furnish the necessary Income Tax certificates as and when request by us.
16. The committee will decide the validity of quotation based on maximum matching specification.