

SanjivaniCollegeofEngineering,Kopargaon

(AnAutonomousInstitute)AffiliatedtoSavitribaiPhulePuneUniversity.

AtSahajanandnagar,PostShingnapur-423603,Ta::Kopargaon,Dist.:Ahmednagar(MS)

ApprovedbyAICTE,ISO9001-2015Certified,AccreditedbyNBA,Accredited 'A'GradebyNAAC,

Website:www.sanjivanicoe.org.in,Email:principalcoe@sanjivani.org.in, Ph.No.:

(+91) 9130191301, Fax: (02423)-222682



Departmentof CivilEngineering

Fluid MechanicsLaboratoryDetails



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Department of Civil Engineering

List of Major Equipment

- Tilting Flume
- Wind Tunnel

Other Instruments

- Pressure Measuring Devices
- Metacentric Height Apparatus
- Venturimeter and Orifice meter Apparatus
- Flow Visualization Apparatus
- Friction In Pipe Apparatus
- Impact of Jet on Vane
- Notches Apparatus
- Electrical Analogy Apparatus
- Reynolds Apparatus
- Bernoulli's Apparatus
- Redwood Viscometer
- Digital Anemometer

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Major Equipment



Tilting Flume (5m Long)

Manufacturer-ETERNAL ENGINEERING EQUIPMENT (P) LTD.

Application- Hydraulic Testing, Flow Visualization, Energy Dissipation



Wind Tunnel

Manufacturer- ETERNAL ENGINEERING EQUIPMENT (P) LTD.

Application- Aerodynamic Testing of Models (Cylinder, Flat plate, Aerofoil), Simulate wind flow around scaled models



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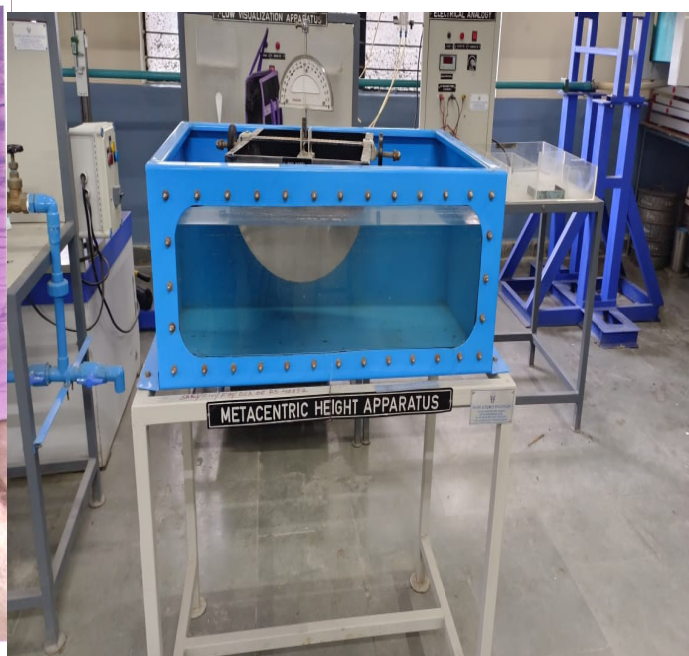
Other Apparatus



Pressure Measuring Devices

Manufacturer- Flow & Force Engineers, Bangalore.

Application- Determining Pressure Distribution by Manometers and Mechanical Gauges



Metacentric Height Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- To determine Stability of Floating Bodies



Venturimeter and Orifice meter Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- Flow Rate Measurements through Pipes, Determination of Discharge Coefficients



Flow Visualization Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- To Study of Flow Patterns, Streamline Visualization

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Other Apparatus



Friction In Pipe Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- To Determine Major and Minor Losses through Pipes.



Impact of Jet on Vane

Manufacturer- Flow & Force Engineers, Bangalore.

Application- To Study of Impulse and Momentum Theories, Measurement of Jet Velocity and to determine the force coefficient



Notches Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- Flow Rate Measurements through Channel, Determination of Discharge Coefficients.



Manufacturer- Flow & Force Engineers, Bangalore

Application- To plot an Analogy between Fluid Flow and Electric Circuit to model Flow Net

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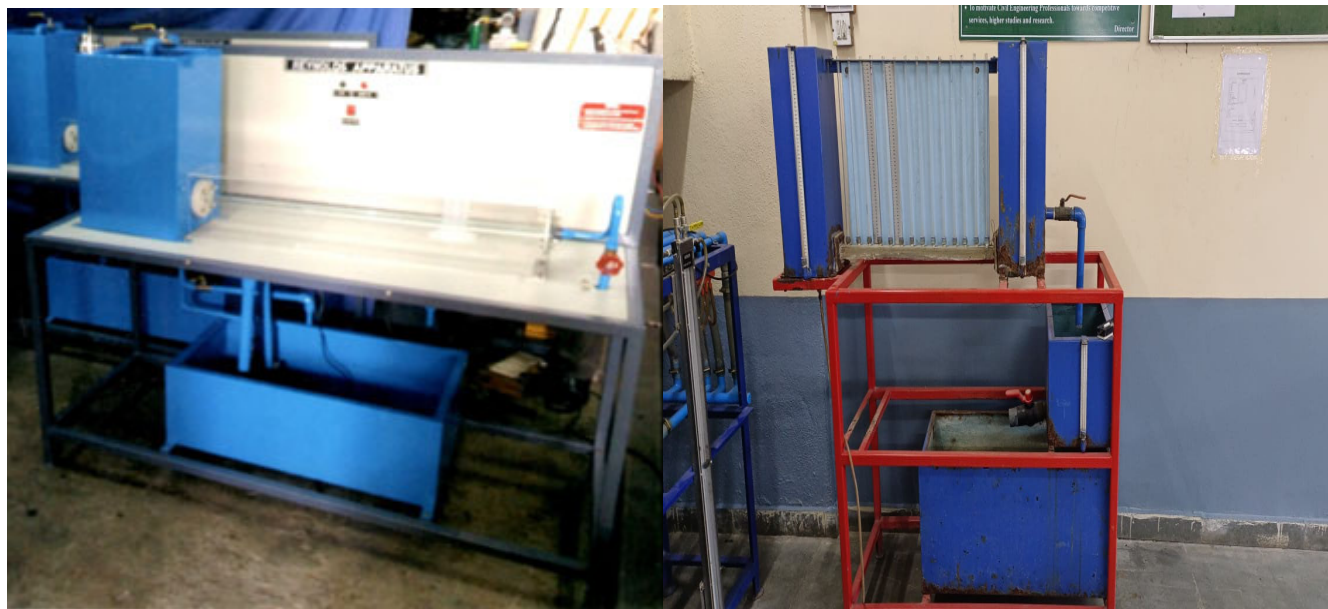
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Other Apparatus



Reynolds Apparatus

Manufacturer- Flow & Force Engineers, Bangalore.

Application- Demonstration of Laminar and Turbulent Flow, Reynolds Number Determination

Bernoulli's Apparatus

Manufacturer- Global Instruments Corporation, Nashik

Application- To verifying Bernoulli's theorem for the flow of real liquid and for plotting Hydraulic grade line and total energy line along the flow section



Redwood Viscometer

Manufacturer- Ms. Laxmi Sales & Agencies

Application- To measure the viscosity of Oil



Digital Anemometer

Manufacturer- M/S. Sai Govind Traders, Kopargaon

Application- To measure the velocity of wind

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Departmentof StructuralEngineering

Other Instruments