

Annexure-I

REVISED TECHNICAL SPECIFICATIONS

Tender No: -RGIPT/JAIS/CEES/E-OPN/UG-LAB/2020-21/02

Date:20.10.2020

1- Venturimeter	
Technical Specification	
Body Material	Acrylic
Dia. of Pipe	1-1.5"
Water Circulation Pump	0.5-1HP
Flow Measurement	25-30 Ltrs. Using Measuring Tank with piezometer Capacity
Sump Tank Capacity *	50-55Ltrs.
Stop Watch	Electronic
Pressure measurement	Pressurized differential pressure manometer

***Revision: Tank material must be of stainless steel**

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2-Orificemeter

Technical Specification

Body Material	Acrylic
Dia. Of Pipe	1-1.5"
Orifice plate material	Stainless Steel
Water Circulation Pump	05-1 HP make Crompton/Standard
Flow Measurement	Using Measuring Tank with piezometer Capacity 25-30 Ltrs
Sump Tank Capacity *	50-60 Ltrs.
Stop Watch	Electronic
Pressure measurement	Pressurized differential pressure manometer

*** Revision: Tank material must be of stainless steel**

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3-Pitot Tube

Technical Specification

Material	Copper of compatible size fitted with venire scale
Test Section	Material Clear Acrylic, compatible to 1-1.5" Diameter Pipe
Water Circulation Pump	05-1 HP, make Crompton/Standard
Flow Measurement	Using Measuring Tank with Piezometer (Capacity 25-30 Ltrs.
Sump Tank Capacity *	50-60 Ltrs
Stop Watch	Electronic
Pressure measurement	By differential pressure manometer.

*** Revision: Tank material must be of stainless steel**



4-Single stage centrifugal pump

Technical Specification

Capacity	1-1.5 HP. Speed 2800-30000 RPM (max.), Head 10 - 15 m (max.).
Drive	1-1.5 HP DC motor.
Speed Control	Thyristor controlled
Sump Tank Capacity*	110 -120 Ltrs. approx
Measuring Tank Capacity	70-80 Ltrs. approx. with Piezometer
Stop Watch	Electronic.
Pressure Gauge	Bourdon type

* **Revision: Tank material must be of stainless steel**

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6- Reynolds Apparatus

Technical Specification

Test Tube Material	Borosilicate Glass. Test Tube ID: 10-12 mm (approx.), Test Tube Length: 700-800 mm (approx.)
Dye Reservoir Material	Stainless Steel
Dye Reservoir Capacity	0.45-0.50 ltr. (approx.)
Revision: Sump tank with stainless steel	Capacity: 110-120 lt

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8-Ball mill

Technical Specification

Material	MS, Dia. 275-290 mm, Length 350mm. Thickness 4-5 mm (approx.),
Feed Size	6-7 mm (approx.).
Product Size	200 mesh (approx.).
Drive	1 HP motor, variable speed coupled to Reduction Gearbox
Product receiver	Material Stainless Steel of suitable size.

Revision:

Ball mill should be provided with

1. Electronic Energy Meter, Digital RPM Indicator with proximity sensor
2. Safety guard
3. Steel Balls (Dia. 25 mm approx.)-15 kg for experiment

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