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**KERALA AGRICULTURAL UNIVERSITY**  
**Kelappaji College of Agrl.Engg & Technology, Tavanur – 679 573**

No. B3- 1414/22(ii)

Dated: 07-03-22

**QUOTATION NOTICE**

Sealed competitive quotations are invited for the supply of experimental Setups required for the Strengthening of Hydraulic lab having the following specifications and subject to the below stated terms and conditions.

Sl No	Item with Specification	
	<b><u>Experimental Set ups</u></b>	
<b>1.</b>	<b><u>Mouth piece and Orifice Apparatus-Technical Specification</u></b>	
	Pump set	0.5 HP, Monoblock, Make: Kirloskar or any reputed brand
	Sump tank	1200 x 300 x 400 mm, SS304
	Collecting Tank	300 x 300 x 400 mm, SS304
	Supply Tank	300 x 300 x 600 mm, SS304
	Orifice and Mouth Pieces	2 sizes of Orifices, 5 different types of Mouthpieces made of Brass /SS
	Head Measurement	A Vernier depth gauge with slider attachment( Pointer gauge) A Micrometer gauge for “Vena Contracta” measurement
	Piezometer	A graduated glass tube ( graduation in cm)
	Experimental Capability	Actual Discharge, Co-Efficient of Discharge by Constant/ Variable Head method
	Manual	Self explanatory Instruction manual with sample calculation
<b>2.</b>	<b><u>Metacentric Height Apparatus</u></b>	
	Sump tank	800 x 800 x 400 mm, SS304
	Ship Model	A hollow ship model made up of SS of size 300x200mm. and 100mm height, with balancing or tilting weights and circular weights
	Angle Measurement	A pendulum & graduated protractor for measuring tilt angle.
	Experimental Capability	Determination of Metacentric height
	Manual	Self explanatory Instruction manual with sample calculation
<b>3</b>	<b><u>Hydro Static Force Exerted on Immersed Flat &amp; Curved Plates</u></b>	
	Sump tank	400x400x400mm SS304 or Accrylic
	Model type	Suitable curved plate with balancing weight
	Measurement	A graduated scale for measuring the rise of water
	Experimental capacity required	Determination of hydrostatic force
	Manual	Self explanatory instruction manual with sample calculation
<b>4.</b>	<b><u>Verification of Bernoulli's Theorem Apparatus</u></b>	
	Pump set	0.5 HP, 1Ph, Monoblock, Make: Kirloskar or any reputed brand
	Sump tank	1200 x 300 x 400 mm, SS304
	Collecting Tank	300 x 300 x 400 mm, SS304

Header Tanks	200 x 200 x 500 mm, SS304 -2 nos.
Duct	A converging-Diverging duct with varying cross-section , SS / Acrylic
Head Measurement	Graduated Glass tube Piezometers at various points of the duct -8 nos
Piezometer	A graduated glass tube ( graduation in cm)
Experimental Capability	Actual Discharge, Total head, Velocity head
Manual	Self explanatory Instruction manual with sample calculation

### Terms and Conditions

1. The rates quoted should be inclusive of all taxes and other charges if any and the items shall be delivered and installed at the points specified by the undersigned (As the equipment is meant exclusively for research purpose, the GST rate should be @ 5%. Essentiality certificate in this connection will be issued along with the supply order). GST @ 2% will be deducted from final payment as TDS.
2. The quotations should reach this office before 2.30 pm 14/03/2022 and the quotation will be opened at 3.00 pm on the same day.
3. Late and defective quotations will not be accepted.
4. The warranty /post supply service details etc. should be mentioned clearly
5. The envelope containing the quotation should be super scribed with "**Quotation for the supply of Experimental Set ups required for the Strengthening of Hydraulic Lab**" as per order No. B3- 1414/22 and addressed to The Dean of faculty (Ag. Engg), KCAET, Tavanur, Malappuram (Dt) Pin-679 573.
6. The successful quotationer is liable to execute an agreement in stamp paper worth Rs.100/- and to remit a security deposit @ 5% of quoted rate (including GST) within 15 days from the date of supply.
7. All rules related to Government quotations will be applicable in this case also.

Sd/-

Dr.Sathian.K.K

Dean of Faculty(Agrl. Engg)

To

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