GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

Awasari(Khurd) Tal: Ambegaon, Dist.Pune-412 405

Tel. No.02133-230582 E-Mail – gcoeara@gmail.com

FAX No. 02133-230583 Webesite : www.gcoeara.ac.in

No. GCOEARA/Store/2016-17/ 2616 Date: 25 AUG 2016

To,

HOD- Computer Engineering for display on College Website

Subject : Quotation for supply of Equipments (Civil Engineering - Fluid Mechanics Lab.)

Please send your quotation for the following items on the terms and conditions listed below, mentioning our reference letter number, date and due date of quotation on your sealed envelop, on or before **07.09.2016** at 5.00 pm.

Sr.No.	Specification	Qty.	Unit
1	Impact of Jet on Vanes	1	No.
2	Centrifugal Pumps Test Rig (Single Stage) (Close Circuit)	1	No.
3	Reciprocating Pump Test Rig (Close Circuit)	1	No.
	(Detail scope of supply will be as per enclosed sheet)		

Terms & Conditons

1 Taxes – Inclusive / if extra clearly mention the percentage.

2 Delivery period –

3 Payment Terms –

4 Quotation Validity – } Mention clearly

5 Warranty -

6 Guaranty-

7 Delivery Charges – Free / if extra mention clearly.

8 The part supply and its bill will strictly not be entertained.

9 If you fail to supply the stores within the specified period, the order will be treated at cancelled without any information.

10 The material will be accepted subject at approval(after inspection of the material),If rejected it will be returned to you at your cost.

11 The material to be supplied should be strictly according to the specification only.

12 Octroi is not applicable since Institute is located in Gram Panychayat area.

13 Please attach copy of your shop registration certificate alongwith your quotation, without which your quotation will not be accepted.

(Dr. A.S. Pant)
Principal
Govt.College of Engineering & Research Awasari
Awasari(khurd)

GOVERNMENT COLLEGE OF ENGINEERING AND RESEARCH AVASARI (KD)
DEPARTMENT OF CIVIL ENGINEERING
List of equipments to be purchased at Institute Level

Sr. No.	Name of Equipments/Accessories/~~consumables~~ with specifications	Quantity Required
	Fluid Mechanics Lab	
1	**Impact of Jet on Vanes**: General Requirements : The apparatus should consist of a cylindrical acrylic vessel. Water is fed through a nozzle and discharged vertically to strike a target carried on a stem which extends through the cover. Force of the jet is measured by the simple calculating moments about fixed fulcrum. Technical Specifications:- Set of Nozzle: 4 mm and 8 mm (Brass), Set of Vanes: Hemispherical, flat and inclined plates, Jet collection tank : 250 mm Diameter Material of Construction for jet collection tank: Perspex, Sump tank capacity : 75 liter with Matt Buffing, Measuring tank (with piezometer) capacity : 35 liter Material of Construction for sump and measuring tank: Stainless Steel-304 with Matt Buffing, Pump : Monoblock type, 0-60 liter/min, Motor 0.5 HP, Piping with necessary Valves and Fittings, Digital Stop Watch with 1/10 second accuracy.	1
2	**Centrifugal Pump Test Rig (Single Stage) (Close Circuit)**: General Requirements and Technical Specifications: The centrifugal pump should be self priming pump with Stainless Steel body coupled to a 3 Phase 1 HP electrical motor; Test rig should be fabricated out of 16 gauge 25x25 mm CRCS powder coated pipes; Piping and fittings: Fusion PPR piping with SS threading wherever necessary Max. Flow rate: 40 LPM (approx); Max. Head: 4 kg/cm^2 (approx); Motor: 1 HP 440 V AC operated; Inlet 25 mm x Outlet 25 mm; Motor and Pump are coupled through variable speed pulley drive which enables speed variation while the pump is running Speed variation: 1:3; Power measurement transmitter with seven segment LED display to measure power consumed by electric motor; Flow rate measurement: volumetric type with digital display; Pressure measurement: Using glycerin filled pressure gauge at suction and discharge end of the pump; Pump speed measurement: Non contact type sensor with panel mounted RPM indicator; Sump Tank: Made up of Acrylic/Plastic, Capacity 75 lit; Measuring Tank: Made up of Acrylic/Plastic, Capacity 50 lit. Control panel to house RPM indicator, pressure gauges and digital flow rate indicator.	1

COE's B. Idenale

GOVERNMENT COLLEGE OF ENGINEERING AND RESEARCH AVASARI (KD)
DEPARTMENT OF CIVIL ENGINEERING
List of equipments to be purchased at Institute Level

Sr. No.	Name of Equipments/Accessories/~~consumables~~ with specifications	Quantity Required	A / Pc
	Fluid Mechanics Lab		
3	**Reciprocating Pump Test Rig (Close Circuit)**: General Requirements and Technical Specifications: Test rig should consist of reciprocating pump mounted on a sturdy frame with anti-vibration mounts. Test rig should be provided with vacuum gauge at suction and pressure gauge at discharge so as to measure pump performance at different speeds by means of different heads. Energy meter for motor input measurement should be provided Reciprocating pump capacity: 1H.P. coupled with DC motor; Motor and speed controller; Sump tank-900x400x400 mm; Measuring tank-400x300x400 mm; Sump tank and measuring tank need to be equipped with necessary drain valve, flow control valve, and piezometer.	1	

Head of Department
Civil Engg. Department
Govt. College of Engg. and Research,
Avasari Khurd, Dist. Pune.