

# GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

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

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No. GCOEARA/Store/2016-17/ 3684

Date: 09 NOV 2016

To,  
As per addresses overleaf

## Subject : Invitation for quotation for supply of Equipments ( For Mechanical Engg. Dept.)

Sealed quotations are invited from manufacturers / their authorised suppliers for supply of the following equipments/machinery to this institute. The quotation in specified format, along with necessary supporting documents should be sealed in an envelope and submitted to this office on or before the prescribed time and date mentioned this invitation letter.

Sr.No.	Name of the item with Specification	Qty.	Unit
1	Kaplan turbine test rig developing about 3750 watts power at 0.5 bar pressure and 100 LPS discharge.	1	No.
2	Pelton wheel turbine test rig developing about 3.75 kW power at 45 mtr head and 625 LPM discharge.	1	No.
3	X-Y Plotter	1	No.
4	Centrifugal Air Compressor having 75 C.F.M. discharge at 0.5 Bar Pressure	1	No.
	<b>Detailed scope of supply of all above equipment will be as per enclosed sheets.</b>		

**Last date for submission of above quotations to this office is 22.11.2016 till 5.00 PM**

### Instructions to bidders and Terms & Conditions

- 1 The quotations must be submitted in sealed envelope, in prescribed format with details of enquiry number, laboratory name last date for submission etc. super scribed on envelope.
- 2 The quotations must be supported by necessary technical literature, and other documents.
- 3 The bidder must not be a defaulter to any Government authorities and must not have been black listed/debarred from supplying goods.
- 4 The bid must be for inclusive price of the goods, must include all taxes and levies, transportation charges, freight etc and for warranty of 2 years from the date of installation.
- 5 Rates quoted should be valid for 90 days from the last date of submission of offer.
- 6 The bid offer must comply with all technical specifications and requirements of the user department. Me lowest price will not be the criteria for award.
- 7 The bidder must mandatorily quote PAN number and VAT TIN, while submitting th quotation.
- 8 The consignee will make payment for the goods received by way of RTGS/NEFT/ECS, as the case may be. the supplier will have to provide bank details to the consignee.
- 9 Payments will be done only after delivery, successful installation and working trial at the consignee's place. Advance payments will not be done.
- 10 This office reserves the right to reject any or all bid offers, without assigning any reason (/s), thereof.

- 11 List of documents to be attached - i) covering letter with details of bidders, address, telephone number, mobile number, email ID, name, signature and seal, ii ) type of business entity-manufacturer / authorised dealer, any others (to be specified), iii) PAN card xerox, iv) sales tax / VAT TIN number v) offer letter stating make and model quoted, vi) authorization from manufacturer regarding support during bidding process and warranty period, in case the bidder is not a manufacturer, vii) technical literature of item quoted, viii) price quote along with taxation, inclusions and exclusions, if any, ix) undertaking that the bidder has not been black listed or debarred from supplying previously. x) undertaking about compliance of terms and conditions mentioned in this quotation.

  
(Dr. A.S. Pant ) 9/11/16

Principal

Govt.College of Engineering & Research Awasari  
Awasari(khurd)

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(Dr. A.S. Pant)  
Principal

Govt.College of Engineering & Research Awasari  
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Kaplan turbine test rig developing about 3750 watts power at 0.5 bar pressure and 100 LPS discharge.

It consists of

- 1) Casing : Sturdy C. I. spiral casing
- 2) Runner : A gun metal runner with polished adjustable aerofoil blades for efficient operations. The blades can be adjusted by means of a suitable mechanism.
- 3) Wicket Gate Assembly : of Gunmetal designed for efficient operation by a hand wheel through a link mechanism. Guide vanes are working inside the turbine with external dummy.
- 4) Mixed Flow Centrifugal Pump Unit :
  - i. Head : 8 mtr.
  - ii. Discharge : 100 LPS.
  - iii. Power : 20 HP
  - iv. Speed : 2880 RPM
- 5) Loading Unit :

Turbine is directly coupled to Rope Brake Pulley with drum cooling, Spring balance & dead weights.
- 6) Flow Measurement Unit :

A suitable orifice meter with without mercury differential manometer.
- 7) Sump Unit :

M.S. recirculating piping system working as reservoir, with inside fiber lamination and drain plug. Suction & Delivery Piping and fittings are provided with Pressure gauge, foot valve & flow control valve.
- 8) Control Panel Unit :
  - i. Digital Speed Indicator with speed sensor.
  - ii. Starter Switch with overload relay.
- 9) Whole unit fitted on strong and sturdy supporting stand with appropriate colour combination.

Pelton wheel turbine test rig developing about 3.75 kW power at 45 mtr head and 625 LPM discharge.


It consists of

- 1) Casing : Sturdy C. I. casing with transparent window for visualization.
- 2) Runner : 10" dia. G.M. runner fitted with 18 Numbers of electroplated buckets.
- 3) Nozzle & Spear Assembly : Brass designed for smooth flow with stainless steel spear for efficient operation..
- 4) Centrifugal Pump Unit :
  - i. Head : 45 mtr.
  - ii. Discharge : 11 LPS
  - iii. Power : 15 HP
  - iv. Speed : 2880 RPM
- 5) Loading Unit : 1 No.

Turbine is directly coupled to Rope Brake Pulley with drum cooling, Spring balance & dead weights.
- 6) Flow Measurement Unit :

A 2.5" Venturimeter with without mercury differential manometer.
- 7) Sump Unit :

M.S. C.R.C. sheet metal sump of 600 lit. capacity with inside fiber lamination and drain plug.
- 8) Suction & Delivery Piping and fittings provided with Pressure gauge, foot valve & flow control valve
- 9) Control Panel Unit :
  - i. Digital Speed Indicator with speed sensor.
  - ii. Starter Switch with overload relay.
- 10) Whole unit fitted on strong and sturdy supporting stand with appropriate colour combination.

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

### Specifications of X-Y Plotter -

1. Size: A0-A4
2. Resolution in dpi - 2400\*1200
3. Memory in Mb: 256
4. Ports: Ethernet
5. Hard Disk: 40 GB

Centrifugal Air Compressor having 75 C.F.M. discharge at 0.5 Bar Pressure with the following -

- 1) Prime Mover Unit :  
5 HP Three phase 440 Volt induction motor with rigid coupling.
- 2) Air Receiver :  
Sturdy air receiver tank having 6 cubic feet volume.
- 3) Air Flow Measurement Unit :  
400 x 400 x 700 mm C.R.C. sheet air tank with orifice & dual column manometer.
- 4) Measurement & Control Unit :
  - i. Pressure measurement by using Pressure Gauge having capacity 0.5 Bar.
  - ii. Air receiver Pressure controlling valve.
  - iii. To avoid back load on compressor, Non return valve is provided.
  - iv. Thermocouples are mounted on different locations to measure various temperatures.
  - vi. Moisture drain cock will be provided at the bottom of the receiver.
  - vii. Energy meter for Input power measurement.
- 5) Control Panel Unit :
  - i. Digital temperature Indicator with selector switch.
  - ii. Starter Switch with overload relay.

*Joshi 09-11-16*  
**Head of Department,**  
Mechanical Engg. Department,  
Govt. College of Engg. and Research  
Avasari Khurd, Dist. Pune