

GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

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

Tel. No.02133-230580, E-Mail – gcoeara@gmail.com, Website : www.gcoeara.ac.in

No. GCOEARA/Store/2017-18/ 312

Date: 22 JAN 2018

INVITATION FOR QUOTATION

Quotation for supply of equipments (for Mechanical Engineering & Workshop)

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 envelope, on or before **01.02.2018** at 3.00 pm. (The quotations will be opened on 02.02.2018 at 11 AM)

Separate quotations are to be submitted for each the items mentioned below and such envelope must be super scribed with enquiry number and date & time of submission of the quotation for that item.

Sr.No.	Enquiry No.	Specification	Qty.	Estimate Cost in Rs.
1	312-1	Apparatus for Determination of Cp and Cv of air(Ideal Gas) Digital Type Instrument	1	25000
2	312-2	Pelton Turbine Test rig, complete	1	208980
3	312-3	Francis Turbine Test rig, complete	1	237980
4	312-4	Plotter (X-Y), Size- Ao-A4	1	170000
5	312-5	Surface Roughness Tester	1	110000
6	312-6	Recirculating type Air Conditioning Trainer	1	145000
7	312-7	Sand Mixer, moulding sand mixing	1	140000
8	312-8	Table or Surface grinding Machine	1	120000
		Detail scope of supply is as per enclosed sheet		
		टिप- निविदा दोन लिफाफा पध्दतीने सादर करणे आवश्यक आहे. (तांत्रिक व वाणिज्य). ज्या निविदा तांत्रिक छाननीमध्ये पात्र ठरतील त्यांच्याच वाणिज्यिक निविदा उघडण्यात येतील. तांत्रिक निविदा लिफाफ्यामध्ये खालील कागदपत्रांची पाहणी करण्यात येईल. अ) निविदाकाराच्या आस्थापनेचे नोंदणी प्रमाणपत्र. ब) GST रजिस्ट्रेशन प्रमाणपत्र. क) डिसेंबर २०१७ पर्यंत GST भरल्याचा पुरावा. ड) निविदेतील वस्तू उत्पादित करित असल्याचा पुरावा (इतर आस्थापनांचे पुरवठा आदेश, देयके). इ) निविदेतील वस्तूचे निविदाकाराचे / उत्पादकाचे Specification sheet / leaflet. फ) पुरवठा करण्यात येणा-या यंत्रसामग्री / उपकरणांच्या क्वालीटी व विक्री पश्चात सेवेबाबत हमीपत्र. ज) निविदाकार स्वतः उत्पादक नसेल तर मुळ उत्पादकाचे बाबतीत वरीलपैकी सर्व कागदपत्रे तसेच निविदाकाराचे मुखत्यारपत्र / वितरक प्रमाणपत्र जोडणे आवश्यक आहे. * वाणिज्यिक निविदेच्या लिफाफ्यामध्ये निविदाकाराचे सर्व समावेशक दर अपेक्षित आहेत.		

Terms & Conditons

- 1 Taxes – Inclusive / if extra clearly mention the percentage.
 - 2 Delivery period –
 - 3 Payment Terms –
 - 4 Quotation Validity –
 - 5 Make & Model -
- } Mention clearly
- 6 Warranty - 2 Years from date of installation
 - 7 Guaranty-
 - 8 Delivery Charges – Free / if extra mention clearly.
 - 9 The part supply and its bill will strictly not be entertained.
 - 10 If you fail to supply the stores within the specified period, the order will be treated at cancelled without any information.
 - 11 The material will be accepted subject at approval(after inspection of the material),If rejected it will be returned to you at your cost.
 - 12 The material to be supplied should be strictly according to the specification only.
 - 13 Please attach copy of your shop registration certificate and **GST Registration Number** alongwith your quotation, without which your quotation will not be accepted.



(Dr. A.S. Pant)
Principal

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

Mechanical Engineering Department

Name of Lab- Thermodynamics

Name of Equipment- Apparatus for determination of Cp & Cv of air(Ideal Gas)

Specification-

- Digital type
- Digital Temperature Indicator.
- Digital Pressure Gauge of Capacity- 2kg/cm².
- Valve for on/off of air from accumulator.
- Accumulator for air.
- Foot pump for filling air.

[Handwritten Signature]
22.01.18

खरेदी प्रक्रिया प्रभारी अधिकारी

शासकीय अभियंत्रितिकी व संशोधन महाविद्यालय
अवसरी (खुर्द), जिल्हा, जि.पुणे.४१२ ४०५

2) Pelton turbine test rig

Pelton wheel turbine test rig developing about 3.75 kW power at 45 mtr head and 625 LPM discharge. It should consist 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 : 1 No. - Made of 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 H.P.
- iv. Speed : 2880 RPM 1 No.

5) Loading Unit : 1No.

Turbine should be directly coupled to Rope Brake Pulley with drum cooling. Spring balance & dead weights.

6) Flow Measurement Unit : 1 No.

A 2.5" Venturimeter with mercury differential manometer.

7) Sump Unit : 1 No.

M.S. C.R.C. sheet metal sump of 600 lit. capacity with inside fiber lamination and drain plug. 6. Suction & Delivery Piping and fittings are provided with Pressure gauge, foot valve & flow control valve. 1 No.

8) Control Panel Unit : 1 No.

- i. Digital Speed Indicator with speed sensor.
- ii. Starter Switch with overload relay.

9) Whole unit should have been fitted on strong and sturdy supporting stand with appropriate colour combination.

Luf
22-01-18

खरेदी प्रक्रिया प्रभारी अधिकारी
शासकीय अभियानित्री व संशोधन महाविद्यालय
अवसरी (सुर्द), ता.आविगाव, जि.पुणे.४१२ ४०५

3) Francis turbine test rig

Francis turbine test rig developing about 3.75 kW power at 1.5 bar pressure and 35 LPS discharge. It should consist of

- 1) Casing : Sturdy C. I. Scroll casing with draft tube.
- 2) Runner : Mixed flow type specific G.M. runner fitted inside the casing.
- 3) Wicket Gate Assembly : 1 No. - Of Gunmetal designed for efficient operation by a hand wheel through a link mechanism. Guide vanes should be working inside the turbine with external dummy.
- 4) Centrifugal Pump Unit : 1 No.
 - i. Head : 14 mtr.
 - ii. Discharge : 35 LPS.
 - iii. Power : 15 H.P.
 - iv. Speed : 2880 RPM
- 5) Loading Unit : 1 No.

Turbine should be directly coupled to Rope Brake Pulley with drum cooling, spring balance & dead weights.
- 6) Flow Measurement Unit : 1 No.

A 4" Venturimeter with mercury differential manometer.
- 7) Sump Unit : 1 No.

M.S. C.R.C. sheet metal sump of 700 lit. capacity with inside fiber lamination and drain plug.
- 8) Suction & Delivery Piping and fittings should have been provided with Pressure gauge, foot valve & flow control valve.
- 9) Control Panel Unit : 1 No.
 - i. Digital Speed Indicator with speed sensor.
 - ii. Starter Switch with overload relay.
- 10) Whole unit should have been fitted on a strong and sturdy supporting stand with appropriate colour combination.

Inf
22-01-18

खरेदी प्रक्रिया प्रभारी अधिकारी

शासकीय अभियांत्रिकी व संशोधन महाविद्यालय
अवसरी (खुर्द), ता. आंबेगाव, जि. पुणे. ४१२ ४०५

4) **X-Y plotter (Ink jet type, colour plotter)**

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

5) **Recirculating type air conditioning trainer**

PARAMETER DESCRIPTION


Compressor - Hermetically sealed. Make: EMERSON /Equivalent
Condenser - Forced Air cooled
Drier / filter- Dry-All makes /Equivalent
Rotameter to be Provided
Diverting Valves - ¼" Hand valves
Expansion Device - Capillary tube.
Capillary tube - MOC Copper
Evaporator - Forced air cooled
Energy meters to be Provided
Condenser Fan - GE/ MAGIC or equivalent make Axial flow type
Evaporator Fan - Centrifugal type (Forward curved vanes)
Psychrometric Chamber fitted with motor blower. & heater
Preheater 1000 Watts Finned type
Dehumidifier or Reheater - 1000 Watt Finned type
Humidifier - Immersed tube type heater with pressure cooker 1 kW
Temperature Indicator - 6 Channel Facility with digital display
HP/LP Cut out Make -- Indfoss/Equivalent
Pressure Gauges - 2 No.s, 2 ½ " Dial type
Anemometer to be Provided

6) **Surface roughness tester**

Accuracy (in) 5% of reading + 4µin, Cutoff Lengths 0.03" ± 15%. Filter 2CR
Measuring Range Ra: 1600µin Rz, Rv, Rp, Rt: 7800µin
Pick-up Stylus Piezoelectric, Roughness Parameter Ra, Rz, Rv, Rp, Rt
Tracer Tip Diamond, Radius 200µin, Tracing Length 0.2"
Tracing Speed 0.08"/sec

Del
22-01-18
खरेदी प्रक्रिया प्रभारी अधिकारी

Sr.No.	Equipment name and specification
7	<p>Table Grinding Machine (Surface Grinding) Max. grinding length: 750mm, Max. Grinding width: 250mm, Centre distance of wheels over Table: 125mm, Longitudinal travel: 12m/min, Wheel size: 250mm x 25mm x 762mm, Max. speed of wheels: 2800 RPM Accessories: Magnetic Separator, Universal Machine Vice, Wheel dresser overhead, grinding wheel, machine lamp, wheel flange puller, wheel balancing mandrill, table guard with fitting, manual magnetic chuck, coolant equipment, dust and exhaust equipment unit.</p>
8	<p>Sand Mixer (Moulding sand mixing) Small size, Batch Capacity 50 Kg, RPM of impeller: 33.4RPM, Electric motor 3HP, diameter of pan (mm-ft): 750-2.5'</p>
9	<p>High Speed Precision Lathe</p>


22.01.18
खरेदी प्रक्रिया प्रभारी अधिकारी
शासकीय अभियांत्रिकी व संशोधन महाविद्यालय
अवसरी (खुर्द), ता.आंदेगाव, जि.पुणे.४१२ ४०५