

DOCUMENT**Open Competitive Bid (OCB)****For**

**Supply and Installation of Equipments
to the Manufacturing Process Lab of Mechanical
Engg. Department
at the three campuses of
Rajiv Gandhi University of Knowledge
Technologies**

Proprietary & Confidential

**RAJIV GANDHI UNIVERSITY OF KNOWLEDGE
TECHNOLOGIES**

Ground Floor, Vindhya C4 Building,

IIIT-H Campus, Gachibowli

HYDERABAD- 500 032

Phone: 040-23001830

Proprietary & Confidential

No part of this document can be reproduced in any form or by any means, disclosed or distributed to any person without the prior consent of RGUKT except to the extent required for submitting bid and no more.

Contents

Description	Page No.
Newspaper advertisement	4
Time Schedule	5
Tender Form	6
Statement of important limits and values of bid	7-8
Eligibility Criteria	9-10
Requirement and Technical Specifications	11- 16
Check List	17

News paper advertisement

Tender Notice



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE
TECHNOLOGIES

Ground Floor, Vindhya C4 Building, IIIT-H campus,
Gachibowli, HYDERABAD- 500 032
Phone: 040-23001830

Sealed Tenders are hereby invited from reputed Manufacturers or Authorised dealers for supply and installation of equipments of the following labs at the three campuses of RGUKT located at Basar (Adilabad District), Nuzvid(Krishna District) and RK Valley (YSR Kadapa District) of Andhra Pradesh:

- 1) Manufacturing Process Lab of Mechanical Engineering Department
- 2) Materials Characterization Lab& Materials Testing and Processing Lab for Metallurgical and Materials Engineering Department.

Last date of submission of tender along with EMD as specified in the bid document is on 03.01.2013 before 04 .00 pm.

Interested parties can collect the Tender document from **17.12.2012 to 02.01.2013** against payment of Rs. 1,000/- towards the cost of Tender document fee (non-refundable) separately for each department through D.D. from any Nationalized Bank payable to REGISTRAR, RGUKT at Hyderabad from the office of the RGUKT. For further details visit our website www.rgukt.in

Date:**15.12.2012**

-Sd-
Registrar

Time schedule of various Short tender related events

Bid calling date	15.12.2012
Sale of document	From 17.12.2012 to 02.01.2013 up to 05:00 P.M
Pre bid meeting	20.12.2012 at 04.00PM
Bid closing date/time	03.01.2013 at 04:00 P.M.
Technical Bid Opening date/time	03.01.2013 at 04:30 P.M.
Price Bid opening date/time	05.01.2013 at 04:30 P.M.
Bid Document fee	Rs.1,000/-
Contact person	Registrar, RGUKT
Reference No	RGUKT/Proc/ME/MP/T 28 /2012

Note: Tender documents purchased bidders are only allowed to participate in Pre-Bid meeting.

Registrar,
RGUKT

TENDER FORM**Not transferable**

Reference. No. RGUKT/Proc/ME/MP/T 28/2012

Dated 15.12.2012

Subject: Invitation of Tenders for Supply, installation and commissioning of Manufacturing Process Lab Equipments to the Mechanical Engineering Departments at three campuses of RGUKT located at Basara (Adilabad Dist), Nuzvid (Krishna Dist) and RK Valley (YSR Kadapa Dist) of Andhra Pradesh.

Last date and time for submission of the TENDER AT RGUKT, Vindhya-C4, IIIT Campus, Gachibowli, HYDERABAD is **03.01.2013 up to 4:00PM**

Dear Sir/Madam,

- A. RGUKT invites sealed tenders comprising technical bid and price bid separately from reputed manufacturers (or) authorized dealers for its three campuses located at Basara (Adilabad Dist), Nuzvid (Krishna Dist) and R K Valley (Kadapa Dist) of Andhra Pradesh.
- B. The Tender form consists of **34 pages of which pages from 7 to 24** are instructions and **page No.25** contains the format for financial bid. The duly completed Technical Bid together with a copy of the bid document (this tender) signed on all pages by the Bidders authorized signatory and the Price Bid should be kept in separate sealed covers. These sealed covers must be submitted in a sealed master envelope super scribed "Tender for Supply , Installation & Commissioning of Manufacturing Process Lab Equipments to the Mechanical Engineering Departments at the three campuses of RGUKT. The last date for submission of bid is **03.01.2013 and closing time is 04:00 PM.**
- C. The Sealed Tenders should be deposited in the Tender box kept in the office of Registrar, RGUKT, Hyderabad up to **04:00 P.M. on 03.01.2013.**

For any clarification and further details on the above tender please contact by Telephone No: 040-23001830 or Contact in Person during office hours.

Thanking you

Yours faithfully,

Registrar,
RGUKT.

STATEMENT OF IMPORTANT LIMITS/VALUES RELATED TO BID

Item	Description
EMD	<p>Rs. 1,00,000/- by way of Demand Draft from any Nationalised Bank or by way of irrevocable bank guarantee from any Nationalised Bank only. DD/BG from other than Nationalised Banks will not be accepted.</p>
Bid Validity Period	90 days from the date of opening of Financial bid
EMD Validity Period	90 days from the date of opening of Financial bid
Warranty Period	3 years Comprehensive Warranty
Variation in quantities/number of residents	<u>+ 40 %</u>
Period for furnishing performance Security Deposit	Within 10 days from date of receipt of award
Delivery Schedule	Bidder shall deliver the goods in one single lot within 30days from the date of award of the contract.
Performance security value	5% of contract value by way of irrevocable Bank Guarantee from any Nationalised Bank
Performance security validity period	38 months from award of contract (including 30 days of installation period)
Period for signing the order Acceptance	Within 7 days from date of receipt of notification of award

Payment terms	
On delivery at user site	<p>Payment for goods and services shall be made in Indian rupees as follows.</p> <ol style="list-style-type: none"> 1. 80% of payment will be paid after installation, commissioning 2. Balance 20% will be paid after 3 months after obtaining the satisfactory certificate from the Director, RGUKT IIITs.
Maximum Liquidated Damages for late deliveries	<p>For delays:- If the supplier fails to deliver any (or) all of the goods or perform the services within the time period specified in the contract the purchaser shall without prejudice to its other remedies under the contract deduct from the contract price as liquidated damages a sum equivalent to 0.25% of the contract value per day until actual delivery or performance up to a maximum deduction of 10% of the delayed goods or services contract price. Once the maximum deduction is reached, the purchaser may consider the termination of the contract duly forfeiting the performance security etc.,</p>

ELIGIBILITY CRITERIA

- 5.1. This bid is open to all firms within India who are eligible to do business under relevant Indian laws as in force at the time of bidding, subject to meeting the pre-qualification criterion. They should provide list of customers of previous supply of similar/ same items to IITs, NIT's or Central Universities or any Academic Institute of National repute with contact details. Copies of orders received from the reputed firms on bidding firm need to be submitted.
- 5.2. The bidder should have servicing facility or work shop with in India so the provision of service is possible at a short notice and without incurrance of delay.
- 5.3. The Bidding firm should have minimum turnover as follows:

Bid Value offered against the tender call	Last financial year's business turnover
25 lakhs	50 lakhs
50 lakhs	1 crore
50-100 lakhs	2 corers
Greater than 100 lakhs	3 crores

The bidder should have adequate experience in supply of such materials as required in the tender. Bidder should furnish proof of having supplied such materials as required in the tender in the previous financial year ending 31st March 2012 as mentioned above . A certificate indicating the Turn Over value details (in Rupees) of subject material, during the financial year 2011-12 (for the year ending 31.03.2012) from a Firm of Chartered Accountants must be enclosed (in original) as a proof for Turnover. The Turn Over of the subject Material must be separately indicated in the certificate.

- 5.4. The bidder should furnish satisfactory performance certificate from the parties concerned to whom bulk supplies were effected, in case such supplies were made. RGUKT may contact any such parties to elicit details.
- 5.5. Bidder should be registered under VAT Act/CST Act with the relevant State Sales Tax Authorities. He should furnish along with the bid document, the relevant VAT/CST Registration Document and PAN / TAN Card copies.
- 5.6. All bidders shall also include the following information and documents with their tenders (in the Technical bid cover)

Web document

- 5.6.1. Copies of original documents defining the constitution or legal status, place of registration, and principal place of business of the bidding firm/entity; written power of attorney of the signatory of the Bid to commit the Bidder.
 - 5.6.2. Machinery/equipment owned by the bidder and number of employees.
 - 5.6.3. Latest Income Tax returns and **VAT/CST** Returns filed.
 - 5.6.4. List of Present Clientele with contact addresses & telephone numbers.
- 5.7. All the certificates furnished along with technical bids should be attested by a Gazetted Officer, counter signed by bidder along with their seal.

The bidders must submit all relevant documentary evidence to support their claim for eligibility in placing bid. **The tenders received without the above documents will be rejected.**

Requirement of Manufacturing Process Lab equipments

S.No	Item	Qty Required
1.	Infrared Thermometer	3
2.	Spot Welding Machine	3
3.	Equipment for Arc Length Measurement	3
4.	Sand Testing Equipment	3
5.	Pillar Type Drilling Machine	3

1. Infrared Thermometer:

Specifications:

Spectral response	8-14 μ m
Temperature range	0 to 800°C
Response time	less than one second
Distance to spot	30:1
Accuracy	$\pm 2^\circ\text{C}$
Display resolution	0.1°C
Adjustable emissivity	0.1 to 1.0
Display	4 ½ digits with LCD back lighted display
Power supply	9V battery
Operating humidity	max of 80% RH
Operating temperature	0°C to 50°C
Temperature display	°C or °F selectable
Memory	20 temperature values

2. Specifications of Spot Welding Machine:

Capacity	150 KVA @ 50% duty cycle
Throat depth	450-500 mm
Throat height	200 mm (adjustable)
Max. short circuit current	65,000 Amps.
Frequency	50 Hz
Main supply	415 Volts, 2 lines of three phase

Control unit power source	110 Volts AC
Stroke	150 mm (adjustable)
Electrode tip dia	19 mm (beryllium copper & chromium zirconium)
Tip holder dia	40 mm (beryllium copper & chromium zirconium)
Horn Diameter	100 mm (copper chromium zirconium)
Air-compressor	10 HP double cylinder type with motor and starter
Water tank/coolant tank	500 ltr S.S fabricated (with 1 HP)
Controller	Microprocessor based controller with constant Current facility (Secondary feedback)
Transformer	Modular (latest) Copper wound, high efficiency High output CRGO type, water cooled and epoxy encapsulated with thermostatic protection
Main cylinder dia	250 mm
F.R.L	½" BSP
Solenoid valve	½" BSP
Flow Control Valves	½" BSP
Surge Tank	30 liters
Foot-switch	Toe operated (electrical) low voltage
Differential switch	IPS70
Electrodes	Copper chromium zirconium electrode tips (50 nos) Beryllium copper electrode tips (50 nos.)

3. Equipment for Arc Length Measurement

Technical Specifications

01. LVDT with Digital Indicator

Range +/-20mm,
Resolution 0.01mm
4.5 digit LED display,
Mains operated
Mounting Clamp
Zero balance with Push Button throughout the range
Indicator Mounting Table top

02. Arc Image Magnifier

Magnification 10Times

Trolley Mounted wheel based

Minimum Height (Magnifier centre) 3.5feet

Vertical Height adjustment 150mm

Left to Right movement 100mm

Longitudinal movement 100mm

Angle Rotation (left to right) +/-10degree for Magnifier only

Angle Vertical Up and Down +/-10degree for Magnifier only

4. Sand Testing Equipment:

S.No	Item Description	Quantity required
1.	<p>Sieve Shaker with Sieve Set Consists of sieving mechanism, to accommodate 10 Nos sieves of 200mm Dia & 35 mm Height Supply:1Ph 230 V 50 Hz AC Default Sieve set includes (Sizes in Microns) 1700, 850, 600, 425, 300, 212,150, 106, 75, 53 Sieves, Lid & Receiving Pan. Timer: 0-15min. Motor - 1/8 Hp Single Phase, Cycles – 50,</p>	3 No.
2.	<p>Sand Muller Consists of one Muller, two ploughs, Rollers and basic accessories, Batch Capacity: 5 Kgs. Motor with Gear Box - ½ Hp Single Phase,</p>	3 No.
3.	<p>Sand Mixer Used to Mix core sand for testing purpose. Consists of two ploughs, Capacity - 10 Kg (Batch), Motor with Gear Box - ½ Hp Single Phase.</p>	3 No.
4.	<p>Rapid Moisture Meter Consists of single pan balance, spoon, 500gms of absorbent compound in polythene bottle, moisture meter capacity 10% complete in carrying case.</p>	3 No.
5.	<p>Sand Rammer Used for preparing a standard specimen of 50 mm Diameter 50 mm Height. It consists of 1) Calibrated sliding weight actuated by cam, 2)</p>	3 No.

	<p>Specimen tube, 3) Cup and 4) Stripper</p> <p>Attachments: Base Block Tube Filter Tensile Core Box Transverse Core Box Split Specimen Tube Compatibility Tester Flowability Tester</p>	
6.	<p>Permeability Meter Consists of air tank, water tank, manometer unit, permeability chart, 2 Orifices, rubber seal and siphon unit.</p> <p>Attachments: Mold Permeability Tester Core Permeability Tube</p>	3 No.
7.	<p>Universal Strength Machine Digital Consists of loading frame, loading mechanism, load cell, motor etc. Facility to accommodate various accessories, digital strength indicator, set of compression pad, compression range up to 15 kg/cm²,</p> <p>Attachments: High Dry Strength Attachments Shear Strength Attachments Tensile Strength Attachments Transverse Strength Attachments</p>	3 No.
8.	<p>Mould Hardness Tester Consists of dial indicator to read hardness of green mould from 0 to 100. Generally used for Hand ramming and/or jolt squeeze molding practice.</p>	3 No.
9.	<p>Digital Balance : Based on Load cell Technology Capacity : 300grms Accuracy: 0.01gm Pan Size: 125 mm Display: LED</p>	3 No.
10.	<p>ELECTRIC HOT AIR OVEN Chamber Size : 600 x 600 x 800 mm³ Max..Temp. : 300°c</p>	3 No.

	<p>Controller : PID digital controller and cum Indicator with A sensitivity of +/- 2.deg.c Air circulation : fan 1 nos Triple walled chamber, Inner made out of S.S. 304 grade heavy gauge to withstand 300°C and outer made out of M.S. duly finished with Siemens white. The walls fitted with high grade glass wool with nickel chrome heating element.</p>	
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

5. Pillar Type Drilling Machine

SPECIAL FEATURES:

- ❖ Important Parts are made from Close Graded Casting
- ❖ Main Spindle made from EN STEEL
- ❖ All the main parts are Ground Finish at Close Tolerance

TECHNICAL SPECIFICATIONS:

- 1) Drilling Capacity in STEEL: 30 mm or better
- 2) Column Diameter: around 106 mm
- 3) Centre of Spindle to Column: around 285 mm
- 4) Taper in Spindle: MT - 3
- 5) Spindle Travel: around 225 mm
- 6) No. of Speed / Range: 8 / 17 to 2000 RPM
- 7) Table Size: 405 x 405 mm to 420 mm x 420 mm
- 8) Over All Base Size: 630 x 420 mm to 650 x 440
- 9) V-Belt Section: B-58
- 10) Electric Motor: 1.25 HP or better

ACCESSORIES:

- 1) Electric Motor
- 2) V-Belt R/F Switch
- 3) Drill Chuck
- 4) Motor Pulley
- 5) Drift Key
- 6) Tapping Attachment
- 7) Coolant Pump
- 8) Machine Lamp
- 9) Machine Vice 100 mm Jaw Size
- 10) Oil Can
- 11) Set of Spanner, Allen Key

7. General Requirements & Qualification Criteria

- ❖ Bidding Firm offering the product should have ISO 9001 Accreditation certification.
- ❖ Bidding Firm, offering the product, should have supplied similar type of test systems for a several years to government establishments, defense organizations & National higher learning institutions like IITs, IISc etc., in India
- ❖ Bidding Firm offering the product should submit list of supplies made by it, during last two years with complete contact details of the end users such as phone number, fax number, e-mail ID etc. It should submit copies of order placed by such organizations and user certificates for goods of same/similar nature.
- ❖ Bidding Firm offering the Product should have a Local Service Support Facility, preferably in Hyderabad, and should submit address and contact details
- ❖ Bidding Firm should give an Undertaking that, an interrupted service support will be given for a minimum period of 10 years with unbroken availability of spares supply.
- ❖ Bidding Firm should give an undertaking that, the Software upgrades if any, during the warranty period of three year, should be supplied free of charge
- ❖ Bidding Firm should offer pre-dispatch inspection free of charge at their factory premises for 2 users for 3 days and post installation training at our three laboratories in different campuses to 2 users for 5 days.

NOTE

A complete set of bidding documents may be purchased by interested bidders from the RGUKT contact person upon payment of the bid document price which is non-refundable. Payment of bid document price should be by demand draft drawn from any Nationalized Bank only in favour of “Registrar, Rajiv Gandhi University of Knowledge Technologies” and payable at Hyderabad (India).

- ❖ Tender documents purchased bidders are only allowed to participate in Pre-Bid meeting.**