

झारखण्ड केन्द्रीय विश्वविद्यालय, राँची
CENTRAL UNIVERSITY OF JHARKHAND, RANCHI
(संसदीय अधिनियम के तहत 2009 में स्थापित केन्द्रीय विश्वविद्यालय)
(A Central University established by an Act of Parliament in 2009)
www.cuj.ac.in

Ref no. CUJ/ P&S/IWEM/123/2013

Dated: 06-04-2013

Sealed quotations are invited for the article enclosed in the separate sheet subject to the terms and conditions given below:

The quotation should be addressed to The Stores Officer Central University of Jharkhand, Ratu-Lohardaga Road, Brambe, Ranchi, 835205 and should reach on or before **30-04-2013**. Technical bid will be opened on the next working day i.e **01-05-2013**.

TERMS AND CONDITIONS

1. Quotations without any erasures and overwriting must be submitted in sealed cover addressed to the Stores Officer, Central University of Jharkhand, Ratu- Lohardaga road, Brambe, Ranchi- 835 205 super- scribed Tender/ Enquiry No. and the due date failing which, quotation may be ignored. Tender/ quotation should be sent through Post/ Courier/ By Hand.
2. The rate quoted should be inclusive of all packing, forwarding, sales tax, freight and insurance charges and should remain valid for our acceptance for minimum period of Six (6) months from the due date of opening of the quotations. The quotation should be CUJ consignee's site basis i.e. Central University of Jharkhand, Ratu- Lohardaga Road, Brambe, Ranchi.
3. Manufacturer's name of company of origin of materials offered must be clearly specified. Complete details of illustrated literatures/ or drawings, in original (not photocopies), if any must accompany all quotations.
4. The University will not entertain requests for revision in prices once quoted for whatever reason after the tenders are opened during the period of contract.
5. All goods must be delivered at our university at Ratu- Lohardaga Road, Brambe, Ranchi for inspection by our inspecting authority.
6. Full payment will be made within 30 days of the receipt and acceptance after inspection of supplies at destination, quotations containing different payment terms are liable to be ignored.
7. All goods must be delivered at our university at Ratu- Lohardaga road, Brambe, Ranchi (Stores & Purchase Section) after confirmed order. The University will provide DSIR certificate, Educational certificate if necessary. The University will not be responsible for issuing any Road Permit.
8. Only Manufacturer/ Authorized distributor/ firms of repute dealing in the items listed in the quotation having experience in sale and repair/ maintenance may apply. In case of dealer,

tender specific Authorization in original from the manufacturer should be attached with the Technical Bid.

9. Foreign Manufacturers should have their own office in India along with Technical Support/ Service Support for better after sales service.
10. Only latest models of items need to be quoted.
11. It should be mentioned specifically whether price quoted includes all taxes and duties. Sales tax and/ or other duties legally leviable and intended to be claimed should be distinctly shown in the tender.
12. VAT/CST Registration Number and its validity should be indicated. Documentary evidences be supplied/ attached to the tender documents.
13. All rates shall be indicated both in words and figures. Where there is difference between the rates quoted in words and figures, rate quoted in words will prevail.
14. The supplier shall make delivery of the items within the stipulated period from the placement of the purchase order. The purchase order would be placed after assessing the requirement and hence, actual quantity may increase/ decrease.
15. The Tender Document for items will be Two- Bid system consisting of Technical Bid and Price Bid. The Tender Document will be submitted item-wise in two separate sealed covers clearly mentioning on the envelope the details of items for which Bid is submitted.
16. The Bidder must enclose point wise compliance of the technical specifications of each item.
17. The price of Tender Document is Rs. 1000/- only (One Thousand rupees only) (non-refundable). The Tender Document price may be attached to the Technical Bid in the form of Bank Draft in favour of "Central University of Jharkhand" payable at Ranchi.
18. The Tender Documents comprising of Price- Bid, Technical Bid and **Earnest Money Deposit of Rs. 10500.00 only (Rupees Ten Thousand Five Hundred only) (refundable)** in the form of Bank Draft in favour of "Central University of Jharkhand" payable at Ranchi kept in the separate envelope super- scribed with the name of the same. The Tender Document must be enclosed with Earnest Money Deposit otherwise the tender document will be rejected. All the documents must be enclosed in a bigger size envelope super- scribed with the tender number and item name.
19. Only those Manufacturers liable to participate having ISO 9001 and ISO 14001 certification.
20. All legal disputes shall be under the jurisdiction of Jharkhand High court, Ranchi.
21. The University reserves the right to accept or reject any Bid, without assigning any reason thereof. No correspondence in this regard will be entertained.
22. All the participating firms should attach supporting documents in favour of:

- a) Have at least 5 years of experience in the field.
- b) Have an annual turnover of at least Rs. 50 Lakh per annum for each of the last 3 years (i.e 2009-10, 2010-11 & 2011-12) (Agency should produce a certificate from their Audit Firm in respect of turnover for the mentioned period)
- c) Be registered with Directorate of Industries or Small Scale Industries or any other appropriate authorities.
- d) Have valid TIN Number for registration under VAT/CST
- e) Have PAN for Income Tax. Supporting documents for Income Tax return for the last Two years (i.e 2010-11, 2011-12).
- f) Documents as proof in respect of Technical bid along with supporting documents.
- g) Profile and Track Record of the agency. (3 years)
- h) Copy of signed Balance Sheets of last three years.
- i) Detailed terms & conditions regarding performance/ warranty/ bank guarantee/ Inspection/ LD/ penalty for delayed supplied will be elaborated in purchase order.
- j) For proprietary items/ single manufacturers or Government manufacturers, proper certification in original is to be attached along with the Technical Bid.

Chairman
(Academic Purchase)

For Specification refer next page:

For any queries please contact: chairmanapc@cuja.ac.in

SI No.	Description of items (Fluid Mechanics Lab)	Quantity
1.	<p>Test Rig for verification of Bernoulli's Theorem</p> <p>Supply tank 45 Liters capacity; Variable cross section transparent duct made of acrylic with suitably spaced 0.5 m height replaceable high quality graduated glass tubes and flow control valve; Measuring tank 32 Liters capacity with overflow arrangement with control valve and elbow; Sump tank 90 Liters capacity; Tanks of MS 14 SWG with FRP coating; Supply pumpset 0.25hp single phase fitted with main switch; Framework mounting with all above items as self-contained unit</p>	1
2.	<p>Test rig for the determination of losses</p> <p>Piping System: Three G.I. pipelines of size 15, 20 and 25 mm, each line fitted with an elbow, a bend, a sudden expansion and a sudden contraction provided with individual ball valves and facility to conduct individual experiment;</p> <p>Differential U-tube manometer; measuring tank 60 Liters capacity; sump tank 90 liters capacity; Pump-set 0.5 hp, single phase fitted with main switch; Framework mounting with all above items as self-contained unit</p>	1
3.	<p>Test rig for pipe friction</p> <p>Piping System: Three G.I. pipelines of size 15, 20 and 25 mm with tappings at 2 meters having a set of individual ball valves and distribution chamber with isolating cocks; facility to conduct individual experiment; Differential U-tube manometer; measuring tank 60 Liters capacity; sump tank 90 liters capacity; Tanks of MS 14 SWG with FRP coating; Pump-set 0.5 hp, single phase fitted with main switch; Framework mounting with all above items as self-contained unit</p>	1
4.	<p>Test rig for determination of Metacentric height of floating vessels</p> <p>Semi circular sectioned hollow ship model; Provision for loading as cargo and warship, fine arrangement for accurate angle measurement; Sump tank of MS 14 SWG with FRP coating; of size 0.7x0.7x0.3 m with a drain plug for floating the model ship; Floating vessel of size 16x36 cm (HxL) 20.5 cm inner; Adjustable weights 2 nos. each of 500, 300, 200 and 100 gms</p>	1
5.	<p>Test rig for calibration of notches</p> <p>Notch tank of 100 Liters capacity having arrangements to fix replicable notches, with a set of welded mesh baffles for accommodating 0.75 inch / 1.0 inch crusher stone for steadying flow of water; Notches made of brass: triangular (V-notch), rectangular and trapezoidal; Hook gauge range 30 cm with vernier and mounting provision; Measuring tank 30 Liters capacity; Sump Tank 180 Liters capacity; Tanks of MS 14 SWG with FRP coating; Pump-set 0.5 hp, single phase fitted with main switch; Electronic stop watch; Framework mounting with all above items as self-contained unit</p>	1
6.	<p>Test rig for determination of Coefficients of discharge (C_d), Velocity (C_v) and contraction (C_c) for flow through orifice and mouthpiece</p> <p>Supply tank: MS 14 SWG with fiberglass lining of capacity 50 Liters with fixture arrangements to mount 3 replaceable orifices (8, 10, 12 mm dia) and mouthpieces (for L/D ratios of 1, 2.5 and 4) made of gun metal; Measuring tank 25 Liters capacity, control valve and piezometer with scale; Sump Tank 120 Liters capacity. Tanks of MS 14 SWG with FRP coating; Pump-set 0.5 hp, single phase fitted with main switch; Electronic stop watch; Framework mounting with all above items as self-contained unit</p>	1
7.	<p>Test rig for calibration of Orifice meter (25 mm and 40 mm)</p> <p>Two GI pipelines of sizes 25 and 40 mm, each line fitted with respective size orifice meter and gate valve provided with set of distribution chamber having isolating cocks to facilitate experiment on individual orifice meter (of gunmetal); Measuring tank 50 Liters capacity with piezometer; Sump Tank 80 Liters capacity; Tanks of MS 14 SWG with FRP coating; Pump-set 0.5 hp, single phase fitted with main switch; Electronic stop watch; Framework mounting with all above items as self-contained unit</p>	1

8.	<p>Test rig for calibration of Venturimeter (25 mm and 40 mm)</p> <p>Two GI pipelines of sizes 25 and 40 mm, each line fitted with respective size venturimeter and gate valve provided with set of distribution chamber having isolating cocks to facilitate experiment on individual venturimeter (of gunmetal); Measuring tank 50 Liters capacity with piezometer; Sump Tank 80 Liters capacity; Tanks of MS 14 SWG with FRP coating; Pump-set 0.5 hp, single phase fitted with main switch; Electronic stop watch; Framework mounting with all above items as self-contained unit</p>	1
9.	<p>Reynolds' Apparatus</p> <p>Apparatus consisting of a borosilicate glass / acrylic transparent tube 12 mm OD and 8 mm ID having Bell mouth entrance, connected to constant headwater tank of 50 Litres capacity; the other end valve provided to vary flow rate; capillary tube of copper/ stainless steel introduced centrally in bell mouth for feeding dye from dye vessel of stainless steel; Sump tank of 90 Liters capacity; Tanks of MS 14 SWG with FRP coating; Supply pumpset 0.25hp single phase fitted with main switch; Electronic Stop watch and measuring cylinder; Framework mounting with all above items as self-contained unit</p>	1