

झारखण्ड केन्द्रीय विश्वविद्यालय Central University of Jharkhand

Brambe, Ranchi, Jharkhand, 835205

CUJ/CEE/ BP/SYS/2015/02

Dated: 10-02-2015

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 Dr. Basudev Pradhan, (P.I. of the Project), Centre for Energy Engineering, Central University of Jharkhand, Ratu- Lohardaga Road, Brambe, Ranchi, 835205 and should reach on or before 04/03/2015.

Ouotations will be opened on the next working day.

TERMS AND CONDITIONS

- 1. Quotations without any erasures and overwriting must be submitted in sealed cover addressed to the, Dr. Basudev Pradhan, Centre for Energy Engineering, 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, commissioning & installation, 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 dealer/ firms of repute dealing in the items listed in the quotation having experience in sale and repair/ maintenance, need apply.
- 9. Only latest models/ mentioned models of items need to be quoted.
- 10. It should be mentioned specifically whether price quoted includes all taxes and duties. Sales tax and/ or other duties legally liable and intended to be claimed should be distinctly shown in the tender.

- 11. VAT/CST Registration Number and its validity should be indicated. Documentary evidences be supplied/ attached to the tender documents.
- 12. 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.
- 13. 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
- 14. 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.
- 15. The Bidder must enclose point wise compliance of the technical specifications of each item.
- 16. 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.
- 17. The Tender Documents comprising of **Price- Bid**, **Technical Bid and Earnest Money Deposit of Rs. 15,500.00** only (**Rupees Fifteen 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.
- 18. Only those Manufacturers liable to participate having ISO 9001 and ISO 14001 certification.
- 19. All legal disputes shall be under the jurisdiction of Jharkhand High court, Ranchi.
- 20. The University reserves the right to accept or reject any Bid, without assigning any reason thereof. No correspondence in this regard will be entertained.
- 21. 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 2010-11, 2011-12 & 2012-13) (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 2011-12, 2012-13).
 - 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.

Dr. Basudev Pradhan (P.I.)

List of Instrument

Item name		Description of items	Quantity
	Feature	Specification	
Thermal	Vacuum chamber	Vacuum chamber is a box type with front opening door	1
Coating		made out of non-magnetic quality AISI-304 stainless steel	
Unit		processed for very high vacuum.	
	L.T. Evaporation and	1 No. of LT electrical feed through for evaporation made of	
	Source	electrolytic pure copper, with 200 amps current carrying	
	Bource	capacity is provided.	
	H.T. ion cleaning	One HT electrical feed through to carry power for Ion	
		c , 1	
	feedthrough and	cleaning is provided. A bar type ion bombardment gadget is	
	gadgetary	fixed on the feedthrough to provide a uniform glow	
		discharge.	
	Source Shutter	A manually operated source shutter with rotary shaft seal, to	
		cover the evaporation source depending on requirement is	
	E (*	incorporated in the chamber.	
	Evaporation source	1 Sets of Central evaporation source holder is provided as a	
	holder	standard. The holder can accept Filaments / Baskets / Boats	
		as evaporation sources.	
	Work holder	A circular Flat work holder made of aluminium is supported	
		from top plate of the box chamber. The work holder will	
		have 320 mm diameter or higher.	
	Electrical controls :	Unit operates on 220V A.C 50 Hz Single phase power	
		supply.	
	L.T Power Supply	A 200 amps power supply capable of delivering 200 amps at	
		10 volts, 100 amps at 20 volts intermittent is provided or	
		better.	
	H.T power supply	A 5000 volts DC Open circuit, 3500 volts at 50 mA high	
		reactance type transformer and solid state bridge rectifier are	
		provided or better.	
	L.T/H.T Control	Thyristor power controller is provided in the input circuit of	
		LT/HT selector provides the output power variation.	
	Meters	Separate Digital panel meters provided for LT/HT primary	
		current and LT secondary current through current	
	Dotony Voor	transformers.	
	Rotary Vacuum	Direct Drive Rotary Vacuum Pump having a displacement capacity of 20 m ³ /hr giving an ultimate vacuum of 1 x 10^{-3}	
	Pump	m.bar under no load condition or better.	
	Diffstack oil diffusion	Diffstack Oil Diffusion pump having 150 mm nominal dia	
	pump	with an effective pumping speed of 750 lit/sec or higher.	
	Cryo trap:	Liquid nitrogen cryo cooled trap is provided in the system	
	High vacuum valve	A 6" size High Vacuum Valve of Butterfly Valve is	
		provided above the diffusion pump or better.	
	Plumbing lines and	Plumbing lines are made of stainless steel which will	
	valves	incorporate a 3 way combination valve	
	Vacuum measuring	Digital High Pressure Pirani gauge with two pirani gauge	
	gauges	heads to independently monitor the roughing (chamber) &	
		backing pressure.	
	Digital thickness	Digital Thickness monitor with water cooled Crystal holder,	
	monitor	Rate display: 3 digits LED Auto-ranging from 00.00 to 999	
	Safety devices	Ang/sec. Water flow switch in the water circulation line of the unit	
		I water flow switch in the water circulation line of the unit	

	by switching off the diffusion pump heater	
Ultimate vacuum	High vacuum in the order of 5 x 10^{-6} m.bar	
Accessories	The following materials are supplied with the unit:	
	Tungsten Helicals (1Pkt.), Tungsten Baskets (1 Pkt.)	
	Molybdenum Boats 200 amps (1pkt.)	
	Quartz 6 MHz Crystal for Film Thickness Monitor	
	First charge of oil for Diffusion pump.	
	First charge of oil for Rotary pump	