

KAKATIYA UNIVERSITY-WARANGAL
TENDER NOTIFICATION, Date: 18-02-2020

Sealed tenders are invited directly from Manufacturers and Authorized Dealers for Research Equipment of High Pressure Autoclave Reactor and H_2 & $CO+H_2$ gas cylinders on or before 09-03-2020 by 5.00 pm. For specifications and detailed tender document visit www.kakatiya.ac.in.

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SCHEDULE FOR PURCHASE OF EQUIPMENT

Schedule No. 220 /KU/2020

Dated 18th February 2020

Name of the Firm with address :
With TIN, PAN Number, etc.

Please quote the lowest rates for the items listed in the annexure. The sealed quotations should reach the Office of the Coordinating Officer, UGC Unit, Kakatiya University, Warangal-506009 on or before **09/03/2020** at **4.00 p.m.** University will not be responsible for any postal or other delay in the delivery of tenders.

The tender is subjected to the following conditions:

1. The bidder has to quote basic price. The prices should be FOR destination. Sales tax, Insurance, Customs and import duties if any, packing and forwarding charges if any, freight charges, any other taxes and charges should be quoted in terms of percentage on basic cost or fixed amount. Any vague statements such as 'Etcetera (etc.)' are not accepted.
2. The payment will be made within a reasonable time after the receipt of goods in good condition and successful installation and demonstration.
3. The company invoice with all supported vouchers should be submitted.
4. Items of rate contract, if any, together with supporting documents should be furnished.
5. The equipment should comply with the description, particulars and specifications supplied by the institution and the specifications offered by the bidder, which are accepted by the institution. Any deviations are liable for rejection of the tender (or) rejection of the equipment even after supply.
6. The period of delivery from the date of placement of order should be clearly mentioned.
7. **The time of installation should be clearly mentioned and any delays on the part of suppliers for supplying equipment and installation and demonstration will be penalized.**
8. **Copies of the manufacturers test report and quality control cell clearance report should be made available along with equipment when it is supplied.**
9. **The quotation must accompany the list of reputed organizations, laboratories and educational institutions having at least 5 years standing for which the equipment is supplied.**
10. **Performance certificates about the performance of the similar type of equipments from the heads of at least three reputed organizations should be submitted along with the tender.**
11. *It is not binding on the institution to accept the lowest of the tenders.*
12. *The institution reserves the right to place order for individual items with different tenders. The quantities indicated herein can be modified without any intimation. The University reserves the right to differ the purchase of any item/all items without any intimation.*
13. All the tenders must be sent in registered post, acknowledgement due. The University will not be responsible for any postal delay or loss of tenders.
14. The purchaser will not pay separately for transit insurance and the supplier will be responsible till entire items/equipment contracted for are delivered and installed in good condition at various destinations. The list of which will be provided by the University.

ANNEXURE: Specifications:

Item: High Pressure Autoclave Reactor and H₂ & CO+ H₂ gas cylinders

Standard Fittings.

1. High Pressure Autoclave Reactor 100ml

Volume & MOC : 1000ml net filling capacity vessel & Head made from SS 316 solid bar stock & all internal wetted parts of SS316.

Design Pressure: 100 bar

Working Temp: 250 Deg C with SS 316 Vessel

Nozzles & Fitting: Pressure Gauge, Vent valve, Safety rupture disc , gas inlet valve & liquid sampling valve mounted on common dip tube , internal Helical cooling coil , thermo well with K Type Thermocouple Temperature sensor.

Body & Head Sealing: Spiral wound metallic gasket with split clamp type quick opening system with clamp bolts. Removable Head & Vessel.

Motor Drive: ¼ H.P Flame Proof AC Motor CE Atex certified (Group IIC) for H₂ Gas and variable frequency drive with 100-2900 RPM infinitely variable speed & digital RPM indication. Motor Shall have 3 piece quick & Maintenance free connect/disconnect motor coupling for ease of operation.

Shaft Sealing: Zero leakage Magnetic drive coupling.
(Maintenance free) MOC : SS316

Stirrer : Solid shaft with 6 Bladed turbine impeller .

Heating: External electrical ceramic band heater with insulation & steel Cladding with FLP Junction Box.

Control panel: SS control panel with Micro processor based P.I.D temperature controller. **The panel shall be screw less design with push lock enclosure, PVC cable tray for internal wiring, safe & rugged metal clad military grade lockable plug socket for all sensors, heater & motor for tight connection & safety of instruments.**

Mounting: Table top model, Complete unit is mounted on SS Stand with polishing of complete autoclave.

2. High Pressure Autoclave vessel with cover 50ml

Standard Fittings Volume & MOC:

50ml net filling capacity made from PTFE Liner

3. Gas Cylinders (H₂ & CO+ H₂ with regulators and purification kit)

15. If the equipment delivered at site is rejected, the University is not responsible for paying any charges and the supplier is solely responsible for removing the equipment. If such equipment is not removed from the site within a period of two weeks, the University reserves the right to remove it from the site and the risk has to be borne by the supplier. The institution reserves the right to recover handling and storing charges in case of such event.
16. In the case of a dispute between the institution and supplier, the dispute shall be referred to Indian arbitration. Venue of arbitration shall be at Warangal.
17. The supplier has to give a guarantee for the equipment and its performance as per specifications for a minimum period of Thirty six months or the duration agreed upon by both the parties, from the date of installation and commission. If during the above said period, it is found that the performance is not up to the mark, the decision of the purchaser in that behalf is final and is binding on the supplier. The supplier has to rectify / replace such defective equipment at his own cost. Otherwise suppliers have to pay compensation.
18. The supplier shall provide servicing facilities throughout the warranty period by trained people at his own cost.
19. The tenders should be valid for acceptance up to a period of 6 months.
20. The quotation with overriding condition will be summarily rejected.
21. **Only those firms should respond who are the manufacturers or authorized dealers. A certificate to this effect duly signed by the manufacturer should be attached by tenderer(s).**
22. **Bidder should enclose with the bid, income tax and commercial/sales tax clearance certificates issued by competent authorities for the last financial year for which the assessment exercise has been completed by the relevant tax authorities.**
23. The envelope must be super-scribed with Group and Item Code for which quotations are being submitted.
24. Separate tender for each Group has to be submitted.