



**Department of Microbiology
KAKATIYA UNIVERSITY
Warangal-506 009**

**Tender for purchase of scientific equipment in Microbiology
Projects of SAP, FIST, DBT and DST (SERB)**

SCHEDULE FOR PURCHASE OF EQUIPMENT

Please quote the lowest rates for the items listed in the annexure. The sealed quotations should reach to **“The Head, Department of Microbiology, Kakatiya University, Warangal-506009”** on or before **08-11-2012** at **5.00 p.m.** The 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. The companies must be ready to demonstrate the equipment in front of a Purchase / Expert committee at the Kakatiya University, Warangal at their own cost if required. The decision of Purchase/Expert committee is final.
12. It is not binding on the institution to accept the lowest of the tenders.

13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. The supplier shall provide servicing facilities throughout the warranty period by trained people at his own cost.
20. The tenders should be valid for acceptance up to a period of 6 months.
21. The quotation with overriding condition will be summarily rejected.
22. 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).
23. 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.
24. The tenders should be addressed to **The Head, Department of Microbiology, Kakatiya University, Warangal-506009.**
25. The envelope must be super-scribed with Group and Item Code for which quotations are being submitted.
26. Separate tender for each Group has to be submitted.

UGC-SAP (DRS-I) No. UGC/SAP/F-23/2009/SAPII

1. Gas Chromatography Specifications:

- Thermal Conductivity Detector only (TCD)
- GC Column: POROPAK and MSSA
- Auto sampler for maximum sample ling capabilities
- All control is accomplished through the keypad or data system
- Gas cylinders (N₂ & Organ with Split / Split less capillary inject
- GC solution software.

- Split / Split less capillary inject

DST-FIST No. 100/IFD/10370/2011-2012

1. HPLC (High Performance Liquid Chromatography): Specifications:

- Prominence Pump Model LC -20AD
- High precision dual plunger design
- Flow range 0.0001 MI to 10 ml Auto Purge function
- Auto schedule function for switch on and off
- LC- Virtual adviser will guide for easy maintenance
- Upgradeability for High pressure gradient up to three pumps and low pressure gradient
- Quaternary pump
- Dynamic Gradient Mixer
- Prominence Photodiode Array Detector
- Highest sensitivity
- Wavelength range 200-1000
- Temperature controller
- Light source D 2 and W lamps
- Installation Accessories
- Injector with 20 μ loop & Automatic start
- C- 18 Column
- Prominence System controller with LC Solution Software

2. Gel Documentation System:

Specifications:

- Gel Documentation system with Hardware
- Gel Documentation to provide Image resolution > 4 megapixels for resolving closely spaced bands on a gel or blot.
- Pixel size 4.6x4.6 μ m
- Linear dynamics range > 3,0 orders for all samples Gel Doc EZ requires no camera adjustments for image acquisition so user does not have to zoom, white for trans-white illumination.
- System should have UV, White light, & optional Blue light.
- Blue for trans-blue illumination
- Sample trays- multi-user and multi-lab instruments.
- System should require only one emission filter to accommodate a large portfolio of detection methods: ethidium bromide, GelGreen, GelRed, Fast Blast™, SYPRO Ruby, Flamingo™, Oriole™, CY3, rhodamine, green fluorescent protein, Hoechst, Krypton, silver stain, copper stain, zinc stain, Coomassie Brilliant Blue, Coomassie Fluor Orange, and other spectrally similar stains, labels, and dyes.
- Sample trays should be customizable per user and recognized automatically.
- Gel Documentation System with Software.
- Should generate customizable reports.
- Electrophoresis unit with powerpack

DBT- No. BT/PR3732/NDB/39/215/2011 (Dr. P. Venkataiah, DBT-MRP)

1. Refrigerated Shaking Incubator:

Specifications :

- Temperature range : 5°C to 60°C
accuracy : ±0.1°C (at 37°C)
- Increment : ±0.1°C
- Control : Microprocessor digital PID control
- Speed range : 25 to 300rpm
accuracy : ±0.1%
- Increment : 1 rpm
- Control : Microprocessor
- Time range : ∞ or up to 48 hours
accuracy : 0.1%
- Increment : 1minute

2. Refrigerated Micro Centrifuge:

Specifications:

- Maximum Capacity : 50ml
- Timer : 1-99minutes
- Temp. Range : -20°C to +40°C
- Dimensions : 178x333x620mm(H x WxD)
- Angle rotor, aerosol-tight :24x 0.5/1.5/2.0ml
- Max. RCF : 31,514 (with micro volume rotors)
- Swing out rotor only f.MZ005 :12x15ml/17x100 ; 12x5ml/12x75
- Max. RCF : 4,105 r.p.m
- Carrier for capacity : 12x15ml rotor
- Control system : Microprocessor

3. Real Time PCR:

Specifications:

- Should have a block capacity of 48-well which can accommodate both 0.2ml and 0.5ml PCR tubes
- Should have inbuilt Gradient capability to optimize Real-time PCR Runs
- Should have a block ramp rate of Heating 2.5 deg/sec and 1.5 deg/sec cooling
- Should have a modularity to use as both PCR and Realtime PCR
- The system should provide future upgrade path for 96 well block with six independently programmable blocks controlled by independent peltier elements containing 16 wells in each block.
- System should support reaction volume 10-30 µL and universal thermal cycling conditions to eliminate optimization of PCR conditions for running the templates from different sources simultaneously.

- The system should provide easy DVD type plate loading design for loading and unloading 48-well plates or individual 0.1 mL PCR tubes.
- Same PCR block should be used for fast and standard Real time PCR experiments.
- The system should independently operate with or without a compatible PC/Laptop. The system should be enabled with LAN connectivity.
- The system should produce e-mail alerts and remote monitoring accessibility for online service support.
- System should enable 3 color multiplexing.
- System should collect data for all filters for all wells regardless of plate setup.
- Should have 48 individual LEDs to minimize cross talk
- Should have 2 filtered photodiodes
- Fluorescence excitation range 470-500nm
- Fluorescence detection range 500-700nm

DST- No. SERB/F/3141/2012-2013 (Dr. Raja Komuraiah Thampu, DST-OYS)

1. Microlog-M

Specifications:

- Rapid identification of aerobic gram negative and gram positive bacteria.
- Microlog-M – Identification Microplate configuration for Aerobic Bacteria.
- Gen III Data collection Software.
- Database, Retrospect 2.0 Data Management Software and multichannel pipettor.

2. Orbital Shaker:

Specifications:

- Choose between two (thermo and shycro) -50c to 70Oc
- Digital Operating System : 24 hours operation, even at high speed
- Variable speed from 15 to 500 rpm.
- **Safety:** Safety interlock stops shaking motion when the door is open

3. UV-Spectrophotometer:

Specifications:

- Automated Control UV-Spectrometer
- Up to 100 Hz data acquisition for single cell kinetics
- Temperature control accessories
- Software – Automated file export and e-mail
- Standard Cuvettes