

**TENDER DOCUMENT
FOR
SCIENTIFIC EQUIPMENTS**



**DEPARTMENT OF PHARMACY
KAKATIYA UNIVERSITY
VIDYARANYAPURI, WARANGAL – 506 009**

SCHEDULE FOR PURCHASE OF SCIENTIFIC EQUIPMENT

Schedule No: 06 / Pharmacy/ UC/ KU/2016

Date: 19th January 2016.

Name of the Firm with address

Please quote the lowest rates for the items, listed in the annexure. The sealed quotations should reach this office on or before **08th February, 2016 at 3.00 p.m.** The tenders will be opened later at the Coordinator office (UGC Unit), Kakatiya University, Warangal. 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 destinations. 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. 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.
5. The period of delivery from the date of placement of order should be clearly mentioned.
6. The time of installations should be clearly mentioned and any delays on the part of suppliers for supplying equipment and installation and demonstration will be penalized.
7. 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.
8. The companies must be ready to demonstrate the equipment in front of an expert committee at the Kakatiya University, Warangal at their own cost if required. The decision of expert committee is final.
9. It is not binding on the institution to accept the lowest of the tenders.
10. 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 decision of expert committee is final.
11. All the tenders must be must in registered post, acknowledgement due. The university will not be responsible for any postal delay or loss of tenders.
12. The purchase 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 the destination.
13. 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.
14. 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.
15. The supplier has to give a guarantee for the equipment and its performance as per specifications for a minimum period of Thirty six months 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.
16. The supplier shall provide servicing facilities throughout the warranty period by trained people at his own cost.
17. The quotation with overriding condition will be summarily rejected.
18. 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 tenders (s).
19. 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.
20. The tenders should be addressed to Prof.Y.NARSIMHA REDDY, Principal Investigator, AICTE Sponsored - RPS, University College of Pharmaceutical Sciences, Kakatiya University, Warangal - 506 009.
21. The envelope must be super scribed with reference No. and Item name for which quotations are being submitted.

Annexure for Specifications

1. Power Lab Instrument/Data Acquisition System:

Number of channels: 4 isolated, human-safe universal

Analog Inputs Front panel labeled

Bio potential/transducer input amplifiers

Gain ranges: 10 xs to 50,000 xs in 12 steps

Input voltage range: Gain dependent 400 microvolts-2 V peak-peak

Input Noise: 0.222 μ VRMS (0.5 Hz-35 Hz)

CMRR: 85 dB minimum

Filters: Programmable analog and digital (IIR) filters;

Automatic or user-adjustable

Analog Output Back panel labeled “Analog Out”

Voltage Output: Range 0-4 V; Resolution 12-bit

Pulse Output: Width: variable

Repetition: variable

Pulse Level: TTL-compatible

With Stimulator:

Input Triggering Options

External Trigger: Back panel BNC labeled “Trigger”

TTL positive or negative edge

Analog Trigger: Any of four input channels

Digital trigger: Any of 8 input lines

Sample Rate 400 k samples/second aggregate across four channels

- 100 k s/s on all four channels for short durations
- 100 k s/s on three channels continuously
- 50 k s/s on all four channels continuously

Electrode Check

Impedance Range: 0-100 K; Checks electrode impedance from Vin+

And Vin- leads with respect to GND lead.

Serial Interface TypeUSB

Certification Complies with IEC60601-1

EMC complies with IEC60601-1-2 CE Marked

Parameters:

ECG, EEG, EMG, EOG, EEG, and Non invasive Blood pressure for rats.

Specification for Non invasive blood pressure monitor:

Cut-off Pressure Range	: 100 – 300 mmHg (adjustable by 1mmHg steps)
Pressure Accuracy	: 300 mmHg Full Scale 1%
Pressure Sensitivity	: 0.1 mmHg Pressure
Signal output	: 300 mmHg/3 Volt DC
Pulse Gain Levels	: x1, x2, x4, x5, x8, x16, x32 (adjustable)
Pulse Signal Output	: 0- 4 Volt DC
Pulse Display	: Pulse intensity is displayed on A2, derived from plethysmographic measure The tail sensor detects blood flow and pulse intensity is increased or decreased, depending on the flow ratio.
Analog outputs	: Two BNC connectors for uncalibrated pressure and pulse signals
Triggers	: Two BNC connectors for TTL Compatible trigger in and out signals
Power Supply	: 12 Volt 2 Amp – External

2. Video tracking System with Y-Maze and Water Maze

Sr. No.	Name of Equipment	Specification required
1	Video tracking system Software	Video tracking system for All Maze, Maze Mater. Specification. <ol style="list-style-type: none"> 1. Easy to use. 2. Calculates <ol style="list-style-type: none"> a. No. of entry in each zone. b. Dist travelled in each zone. c. Total dist travelled. d. Can do multiple zone. e. Special tools for drawing zones for Morris and open field mazes. f. Timer g. Manual events. h. Easy grid view. i. Immobility, measure and analyze time spent on exploring an object, analyze behaviour in relation to various zones and objects, distance travelled.
	Computer	Dual Core or above, 4 GB Ram, 500 GB hard disk, 15 inch or above monitor, UPS Windows OS
	Camera	Camera suitable for video tracking system

	Lighting System in Room on wall. (Basic)	<ol style="list-style-type: none"> 1. Four inverted lights will be fitted on wall. 2. Light intensity pot for each light. 3. Wiring arrangement for these lighting. 4. Casing will be there. 5. Adjustable lighting arms. 6. Pre-molded material for Arms. 								
2	Y- Maze for Mice.	<table border="1"> <thead> <tr> <th></th> <th>Lane Width</th> <th>Arm Length</th> <th>Wall Height</th> </tr> </thead> <tbody> <tr> <td>Mice</td> <td>5cm</td> <td>35cm</td> <td>15cm</td> </tr> </tbody> </table> <p>Acrylic material Easy to clean Doors with food plate arrangement.</p>		Lane Width	Arm Length	Wall Height	Mice	5cm	35cm	15cm
	Lane Width	Arm Length	Wall Height							
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3	Y-Maze for Rat.	<table border="1"> <thead> <tr> <th></th> <th>Lane Width</th> <th>Arm Length</th> <th>Wall Height</th> </tr> </thead> <tbody> <tr> <td>Rat</td> <td>10cm</td> <td>50cm</td> <td>40cm</td> </tr> </tbody> </table> <p>Acrylic material Easy to clean Doors with food plate arrangement.</p>		Lane Width	Arm Length	Wall Height	Rat	10cm	50cm	40cm
	Lane Width	Arm Length	Wall Height							
Rat	10cm	50cm	40cm							
4	Morris Water Maze	<p>Round In shape. 4 feet diameter Acrylic Plat form Easy to clean FRP (Fiber reinforce plastic body) Easy to drain</p>								

3. Gel electrophoresis specifications:

<p>1</p>	<p>Vertical Gel Electrophoresis Unit:</p>
	<p>10-well, 1.0mm thickness; 2-gel system includes 5 combs, 5 sets of glass plates, casting stand, 2 casting frames, sample loading guide, electrode assembly, tank, lid with power cables, mini cell buffer dam</p> <p><u>Specifications :</u> Number of gels : 1-2 should be upgradable to 4 systems Precast gels : Readygel precast gels Handcast gels : Cast using Mini-Protean spacer plates Gel size (WxL) : precast : 8.6 x 6.8cm, Handcast: 8.3x7.3cm Gel plate size (WxL) Short plate : 10.1 x 7.3cm</p> <p>Total buffer volume for 4 gels : 1,000 ml</p> <p>Typical run times for SDS Page : 35-45 min (at 200 v constant)</p> <p>Recommended P.Supply : Powerpac Basic or Powerpac HC</p> <p>Dimensions (WxLxH) : 12 x 16 x 18cm, weight : 1.0 kg (2.2 lb)</p>
<p>2</p>	<p>Powerpac Basic Power supply, 100-120/220-240V</p>
	<p><u>Specifications :</u> Output range (Programmable) Volts : 10-300V Current : 4-400 mA Power : 75 W (Maximum) Type of output : Constant voltage or (with automatic crossover) : constant current Timer : 1-999 min Display : 3-digit LED Programmable Methods: - Automatic recovery after Power failure</p>

	<p>Sudden load change detection, Overload/short circuit detection, over voltage protection Operating conditions : 0-40 deg C 0-95% Humidity Number of output jacks : 4 sets in parallel Regulatory : EN-61010, CE Input Power (actual) : 90-120 or 198-264 VA 50/60 Hz, autoswitching Dimensions (WXDXH) : 21x24.5x6.5cm Weight : 1.1kg</p>
3	<p>Mini Trans blot Module, with lower buffer tank and lid</p> <p><i>includes 2 gel holder cassettes, 4 fiber pads, modular electrode assembly, Bio-Ice cooling unit, lower buffer tank, lid with cables,</i></p>

4. Stereotaxic Apparatus Specifications

1. Rat & Guinea Pig Stereotaxic instrument with Rat adapter.
2. Electrical burr variable speed Supplied with 6 pcs of Burrs / Drills.
3. Animal experimental table for Stereotaxic work with stainless steel top.
4. Portable overhead lamp on castors for horizontal movement and Vertical telescopic height adjustment for Stereotaxic work.

5. Auto Analyzer Specifications

1. Light source: Tungsten halogen lamp.
2. Wavelength range: 340, 405, 450, 505, 546, 578 & 690 nm.
3. Photometric range: 0.000 to 3.000A. Linear upto 2.500.
4. Detector: Photocell.
5. Temperature display on LCD.
6. Cuvette system: Quartz micro-flow cell, measuring volume 25 μ L and 10 mm optical path.
7. Aspiration system: Built in peristaltic pump driven by stepper motor programmable aspiration volume from 200-1000 μ L.
8. Measurement modes: Absorbance, Endpoint, Two-point, Kinetics.
9. Printer: thermal printer ,Fast speed and low noise.
10. Data management software optional.
11. Data storage:Memory capacity 1000 results.Reagent blank value storage for reagent blank chemistry.
12. Power requirement: Power supply:AC 220V \pm 10%,50HZ \pm 2%,Power:80VA.