



**Rani Lakshmi Bai Central Agricultural University, JHANSI**  
NH-75, NEAR PAHUJ DAM, GWALIOR ROAD, (UTTAR PRADESH) – 284003

रानी लक्ष्मी बाई केंद्रीय कृषि विश्वविद्यालय, झांसी

एन एच-75 पहुँज धाम, ग्वालियर रोड, उत्तर प्रदेश – 284003

Phone: 0510-2730555; 2730777; Website: www.rlbcau.ac.in

Dr. Mukesh Srivastava  
Registrar

No.: 211/RLBCAU (R)/ 2016

Dated: 18.11.2016

To,

**Sub: Tender for the purchase of Laboratory Equipments-reg.**

Sir,

On behalf of the Vice Chancellor, RLBCAU, Jhansi, the undersigned invites sealed tender, complete in all respect, for the **Purchase of Laboratory Equipments** as mentioned below. You are requested to submit your competitive prices, terms of supply etc. by post to reach this office **on or before 9<sup>th</sup> December, 2016**. The proposal for the purchase should be strictly in accordance with the technical specification mentioned as under and terms and condition framed by this office. The details are as under.

S. N	Details of items	Qty.
1.	<b>Horizontal Laminar Flow</b> <b><u>Technical Specifications:</u></b> <ul style="list-style-type: none"><li>Working space of the laminar flow be approx. 120 cmx 100cm x 100cm</li><li>Manufactured from stainless steel body</li><li>Table top be covered with non-antiglare platform of stainless steel sheet with sides of working bench &amp; door of transparent acrylic of minimum 5mm thick;</li><li>HEPA filters (2 in no.) be mounted in metallic frame with efficiency as high as 99.9% and should be moisture, fungus, bacteria resistant;</li><li>Fitted with washable, re-usable synthetic fibre glass pre-filters;</li><li>Fitted with fluorescent tubes, UV light, Manometer and Cock for gas line;</li><li>Noise level &lt; 65db;</li><li>Air flow in the range of 70-130 fpm;</li><li>The blower assembly must be suitable to work at 220-230 V;</li><li>Display for air flow by megnaelic guage rate and main power socket;</li><li>Blowers should be fitted with 1/5 H.P.; Electric Motor to be operated with minimum noise and vibration. Complete with HEPA Filters, Pre filters, U.V. Tube, Motor Blower, Manometer, Gas Cock, Transparent Acrylic Sheet Front door and Side wall.</li><li>Atleast 3 years onsite warranty</li></ul>	1
2.	<b>Fluorescence Microscope</b> <b><u>Technical Specifications:</u></b> <ul style="list-style-type: none"><li>Excitation in the ultraviolet (330-385nm), blue (460-490 nm), green (510-550 nm) and full spectrum light.</li><li>Infinity optical system, Anti fungus type; available with high-point wide field eyepieces also suitable for people wearing glasses;</li></ul>	1

	<ul style="list-style-type: none"> <li>Fluorescence attachment should be High Power LED with lifetime of LED of minimum 50,000 hours</li> <li>The microscope must have the magnifications of 20, 40, 100 and 200 power.</li> <li>Both the reflected light and sample fluorescence may be viewed through and recorded at the microscope.</li> <li>Minimum 5-8 megapixel camera as well as a USB for camera with image capture software must be available for recording images;</li> <li>Ease to operate with rackless stage;</li> <li>Designed for easy setup to place in restricted spaces;</li> <li>High contrast phase imaging to allow close observation of the cell interior, etc. and phase contrast observation must be from 4X to 100X;</li> <li>Illumination system should be special LED system with brightness control with the lifetime of LED not less than 50,000Hrs;</li> <li>Atleast 3 years onsite warranty</li> </ul>	
3.	<p><b>Ice flaking machine</b></p> <p><b><u>Technical Specifications:</u></b></p> <ul style="list-style-type: none"> <li>Air cooled with electronic control having control board with display;</li> <li>Built of stainless steel;</li> <li>Consume low power and must have built in pump;</li> <li>Stainless steel cabinet and properly insulated;</li> <li>Minimum 10-15 kg bin capacity and must have minimum 25 kg/day production;</li> <li>Safety protection from water supply</li> <li>Operating Voltage: 230 ± 10VAC, 50Hz;</li> <li>Automatic low water cut off and full ice storage cut off (Auto stop/start);</li> <li>Atleast 3 years onsite warranty</li> </ul>	1
4.	<p><b>Autoclave Vertical</b></p> <p><b><u>Technical Specifications:</u></b></p> <ul style="list-style-type: none"> <li>Operating Pressure 15 to 20 (p.s.i. adjustable). Triple walled and the jacket of stainless steel with locking device;</li> <li>Provided with Paddle lifting device;</li> <li>The space between jacket and outer wall be filled with glasswool;</li> <li>Pressurized steam for efficient sterilization;</li> <li>Automatic pressure control switch be provided;</li> <li>Capacity 50-60 ltrs with overall dimension (L x B x H) of atleast 500 mm x 500 mm x 1000 mm with inner chamber of minimum 400 mm x 500 mm;</li> <li>Sterilization time must range between 0-120 min;</li> <li>Sterilization temperature range be 120-130°C;</li> <li>Equipped with over temperature protection device;</li> <li>Hydraulically tested upto 40 p.s.i as a safety measure. Complete with cord &amp; plug to work on Single Phase 220/230 volts A.C. supply.</li> <li>Atleast 3 years onsite warranty;</li> </ul>	1
5.	<p><b>Micropipettes</b></p> <p><b><u>Technical Specifications:</u></b></p> <ul style="list-style-type: none"> <li>Variable Volume Pipettes 0.5-5 µl; 1-10 µl; 2-20 µl; 5-50 µl, 10-100 µl; 20-200 µl; 100-1000 µl; 1000-5000 µl with large display;</li> <li>Magnetic assist to avoid heavy pipetting forces;</li> </ul>	1 each of specified volume range (8)

	<ul style="list-style-type: none"> <li>• Lightweight with digital volume adjustment;</li> <li>• Comfortable finger rest for comfortable pipetting,</li> <li>• Soft-touch tip ejector to reduce the tip ejection forces;</li> <li>• Fully autoclavable for dependable contamination prevention</li> <li>• Atleast 3 years onsite warranty;</li> <li>• Each pipette should be individually calibrated according to ISO standards; Manufactured as per ISO 9001:2008.</li> <li>• Each pipette should be individually calibrated according to Calibration certificate must be provided with each pipette.</li> <li>• Accuracy and Precision values should be those laid down in the ISO standards.</li> </ul>	
6.	<p><b>Electronic Weighing Machine</b></p> <p><b><u>Technical Specifications:</u></b></p> <ul style="list-style-type: none"> <li>• Equipped with electronic calibration;</li> <li>• Weigh within the range of 0.001g to 500 gm;</li> <li>• Equipped with LCD graphic display.</li> <li>• Atleast 1 year onsite warranty.</li> </ul>	1
7.	<p><b>Laboratory Refrigerator</b></p> <p><b><u>Technical Specifications:</u></b></p> <ul style="list-style-type: none"> <li>• The capacity of the Refrigerator be 300 L;</li> <li>• The dimension must be in the approximate range of ~600 x 600x 1700;</li> <li>• Inner &amp; outer chamber of G.I./ABS; Plastics &amp; outer chamber of G.I. duly painted;</li> <li>• Frost Free / Static Cooling and Energy efficient;</li> <li>• Uniform cooling by forced air circulation;</li> <li>• Adjustable wire mesh shelves;</li> <li>• Clear product visibility with dual glass;</li> <li>• Temperature range be within 1° C ~ 10°C;</li> <li>• Atleast 3 years onsite warranty</li> </ul>	1

#### Terms and conditions

1. Prices should be FOR RLBCAU, Jhansi.
2. **Quoted items should be as per the technical specification provided.**
3. **EMD 2% of the quoted value must be attached with the offer in the shape of DD drawn in favor of RLBCAU, Jhansi, Payable at Jhansi.**
4. Quotation should be valid for the minimum period of 90 days from the due date.
5. Unsigned and incomplete tender/submission will not be acceptable.
6. Part supply will not be accepted.
7. The sealed envelope should be clearly super scribed "Tender for-**Purchase of Laboratory Equipments due on 09/12/2016.**
8. **The last date of submission is 09/12/2016 upto 12:30 PM**
9. **The date of opening is 09/12/2016 at 2:30 P.M.**
10. Late delayed tender shall not be considered. The University will not be responsible for any kind of postal delay.
11. Taxes if, any, applicable should be mentioned clearly as this office will not issue any concessional forms in this regard.

12. The figures should be written clearly/legible, cutting, overwriting (s) are not acceptable.
13. The relevant documents like Registration No., PAN No., TIN No. must be enclosed along with the Tender/Quotations.
14. **As per the instructions given by the Additional Commissioner, Sales Tax Office, Jhansi, 4% Sales Tax will be deducted from the total amount of bill.**
15. Payment will be made within 30 days from the date of complete and satisfactory execution of work /supply. Since the mode of payment will be e-Payment system, hence Bank Account Number, Name of Bank with location and IFSC code number of Bank, Mobile Number/Telephone Number of firm may be furnished on the body of the bill.
16. Advance payment is not permissible under the rules, payment only on bill basis will be considered.
17. Next working day will be considered as the last date and final date for the purpose of submission and opening, in case the fix date (s) happens to be a closed holiday.
18. This University's jurisdiction is Jhansi (UP).
19. The Vice Chancellor, the competent authority of this University, reserves all right to accept or reject any or all the submission at any stage without assigning reasons, thereof.

Yours faithfully,



(Mukesh Srivastava)

Registrar

**Copy to:**

Mr. J. L. Sharma, AO, RLBCAU, Jhansi, with a request to post the tender in the web site of the institute.