



**DEPARTMENT OF MICROBIOLOGY  
ASSAM UNIVERSITY, SILCHAR**

(A Central University constituted under the Act of Parliament of India in 1994)

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**NOTICE INVITING TENDERS**

Assam University, Silchar, a central university invites **SEALED BIDS** from reputed manufacturers /authorized distributors / authorized firms with sound technical capabilities for supply, installation and commissioning of the following items to be procured under SERB-ECR Project in the Department of Microbiology, Assam University, Silchar.

Serial no.	Description and specification of the item	Quantity required	Last date of submission of sealed tender
1.	<p><b><u>High Speed Refrigerated Centrifuge:</u></b></p> <ul style="list-style-type: none"><li>• System should have max RCF of 30,130 x g</li><li>• System should have max RPM of 17,500 RPM</li><li>• Acceleration time: 14s and Deacceleration time : 15s</li><li>• Soft ramp function for adjustable for rotor acceleration and braking slowly</li><li>• Timer should be of 30 s – continuous</li><li>• Noise level should be &lt;67 dB</li><li>• Wide temperature range from -11°C to + 40°C, which is modifiable during the run operation.</li><li>• System should able to store 50 routine procedures with 5 programmable buttons.</li><li>• Built-in condensation drain to eliminate water accumulation and prevent corrosion.</li><li>• System should able to switch display between rcf and rpm speed setting.</li><li>• Able to maintain 4 °C at max. Speed</li><li>• Should have Short Spin Function</li><li>• Should have "At Set RPM" function - time count starts after reaching the set rpm</li><li>• Should have Fast Temp function - to start a temperature control run directly</li></ul>	One	<b>03.10.2016</b>

	<ul style="list-style-type: none"> <li>• Should have Fast Temp pro function - to start a temperature control run with defined start time</li> <li>• System should have ECO Shut off Function to reduce energy</li> <li>• Should have Built in condensation drain to eliminate water condensation</li> <li>• System should have automatic imbalance detection, over speed detection and temperature protector</li> <li>• System should have Quick lock technology for quickly opening and closing the rotor lid</li> <li>• System should be PTFE-coated Rotor FA-45-24-11-HS, incl. rotor lid, for 24 x 1.5/2.0 ml tubes provides speed upto 30,130 x g, and 17,500 rpm.</li> <li>• System should be supplied with fixed Angled Rotor F-35-6-30, incl. rotor lid, for 6 x 50 ml centrifuge tube, rotor comes with adapters for 15 and 50 ml Falcon / Conical tubes. The 50 ml adapter can also handle 50 ml skirted Falcon / Clonical tubes. Maximum speed 7,197 x g (7,830 rpm).</li> <li>• Should have Power supply: 230 V / 50-60 Hz</li> <li>• Should have Dimension (WxDxH) : 38x64x29cm</li> <li>• Instrument should be European CE certified/ USFDA and should posses IVD conformity.</li> </ul>		
2.	<p><b><u>Orbital Shaking Incubators:</u></b></p> <p><u>System should have following specifications:</u></p> <ul style="list-style-type: none"> <li>• Wide temperature range from: 15°C to 60°C</li> <li>• Power Supply: 220V, 4.5A, 60HZ</li> <li>• Temp. Controller: Digital P.I.D controller.</li> <li>• Speed Range: 10-350 RPM and Display: LED Display.</li> <li>• Drive System: Beltless Direct drive.</li> <li>• Motor: Brushless D.C Motor K-type.</li> <li>• Circulation Fan: 3.5’’ convection fan x 2EA.</li> <li>• Dimension (IN): 510 x 530 x 400(H) mm.</li> <li>• Dinension (OUT): 515 x 730 x 720(H) mm.</li> <li>• Lid: Acrylic Blue.</li> <li>• Safety Device: Over temp., Protector, Door detector .</li> <li>• Standard plate: 250ml x 25EA</li> </ul> <p><b><u>Plate of Flask:</u></b> 100ml Flask (32EA), 250ml Flask (25EA), 500ml Flask (16EA), 1000ml Flask (9EA), 2000ml Flask (4EA) and Spring Rock (450 X 450mm).</p>	One	03.10.2016

3.	<p><b><u>Bio-Safety Cabinet (class II):</u></b></p> <p><u>System should have following specifications:</u></p> <ul style="list-style-type: none"> <li>• Should have High efficiency filter, less vibration &amp; noisy structure.</li> <li>• Should be Enabled using microscope inside height of 700mm.</li> <li>• Should be UV Timer: One Touch, 15, 30 min. &amp; Infinity.</li> <li>• Should have Electronic valve enable locking gas valve when power is locked.</li> <li>• Wind Velocity: 0.2 ~ 0.5m/sec.</li> <li>• Air Volume: 20m<sup>3</sup> / min.</li> <li>• Efficiency: 0.3micron Particle / 99.97%</li> <li>• Dimension (in): 1200(W) × 550(D) × 700(H) mm.</li> <li>• Dimension (out): 1330(W) × 800(D) × 1820(H) mm</li> <li>• Working Table: SUS 304</li> <li>• Door: Sliding Spiral Spring Door, Safety Glass.</li> <li>• Illumination: 30W F.L. × 1EA.</li> <li>• UVG Lamp: 30W × 2EA.</li> <li>• Velocity Meter: Electronic Type, 10 Stage Display.</li> <li>• Safety Device: Auto Gas Locking Valve, Auto UV off Limiter.</li> <li>• Utility: Gas Faucet, Vacuum Faucet, and Power Outlet.</li> </ul>	One	03.10.2016
4.	<p><b><u>Analytical balance</u></b></p> <p><u>System should have following specifications:</u></p> <ul style="list-style-type: none"> <li>• LCD backlit display.</li> <li>• Capacity: 220 gm.</li> <li>• Minimum Display: 0.1 mg.</li> <li>• Type: Analytical</li> <li>• Pan size: Ø 91</li> <li>• Calibration: Internal and external calibration by operator selected weight.</li> </ul>	One	03.10.2016

5.	<p><b><u>BOD Incubator with Digital Temperature Controller:</u></b></p> <p><u>System should have following specifications:</u></p> <ul style="list-style-type: none"> <li>• Size: 505x415x830mm 6 CU ft.</li> <li>• Capacity: 170L</li> <li>• Temp. Controlled by Digital Temperature Controller Inner Stainless steel outer body M.S. Duly powder coated.</li> <li>• Temp. range: 5-50 °C.</li> <li>• CFC Free Compressor.</li> <li>• Full view inner glass door.</li> <li>• Lock &amp; Key Arrangement.</li> <li>• Caster wheel mounted cabinet.</li> <li>• The inner chamber is properly insulated with special grad PUF to prevent thermal losses. Air Circulating Fan for Uniform temperature.</li> </ul>	One	03.10.2016
6.	<p><b><u>UV-Trans illuminator with Filter</u></b></p> <p><u>System should have following specifications:</u></p> <ul style="list-style-type: none"> <li>• Wavelength: 312nm fixed/ Dual Intensity.</li> <li>• No. of Tubes: 6</li> <li>• Wattage: 8 Watts</li> <li>• Detection limit: 0.1 ngm. of stained DNA.</li> <li>• Filter area: 20x20 cms.</li> <li>• Filter: Quartz UV Filter</li> <li>• Body: MS with powder coated.</li> <li>• UV Protection shield: Yes.</li> </ul>	One	03.10.2016

1. The tenders complete in all respects should be addressed to **Dr. Diwakar Kumar, PI, SERB-ECR Project, Department of Microbiology, Assam University, Silchar-788011, ASSAM.**
2. The tenderers for equipments must submit the bid(s) in two-bid system (Technical and Financial).
3. Tenders by e-mail, Fax, Telex, Telegram will not be accepted. Tenders must be submitted in sealed envelope only clearly indicating **“TENDER FOR ITEMS FOR SERB/Microbiology-2016”**
4. In case of any modification in specifications / terms and conditions / any clarification to the bid document, it will be hosted in the university website only and the bidders are requested to log to our website from time to time and no separate corrigendum will be issued in this regard.
5. The rate should be exclusive of taxes and applicable tax should be clearly indicated.
6. The rates should be quoted along with supporting documents of specifications, technical features, list of users and authorized dealership documents (if applicable)
7. Details of availability of after sales support will have to be furnished.
8. **The university is exempted from paying Customs and Excise duty.**
9. Proprietary items should be quoted with sole Manufacturer / Dealership certificate. Without dealership or manufacturer’s certificate no bids will be accepted.
10. No advance payment will be made. However, if items are of foreign origin, advance payment can only be made in the form of vide **LOC/FDD/Wire Transfer. Performance Bank Guarantee may be submitted as per rules covering warranty period.**
11. Items of foreign origin should have insurance up to installation site.
12. If any item / equipment delivered in damaged condition, the equipment should be replaced with new one immediately.
13. In case of equipment of foreign origin, the Indian agent should submit one undertaking in nonjudicial stamp paper, stating that if any equipment delivered in damaged condition they will be liable to replace the same with a new one **(applicable only when order is placed).**
14. The university reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.

Sd/-  
Dr. Diwakar Kumar  
PI, SERB Project  
Department of Microbiology  
Assam University, Silchar – 788 011, INDIA

**Copy to:**

1. Copy to Secretary to VC, AUS for VC’s kind information
2. The Head, Department of Microbiology, AUS
3. The Registrar, AUS
4. The Finance Officer, AUS
6. Director, Computer Center with request to upload the tender/ notification.
7. File for record

## PROFORMA FOR SUBMISSION OF TECHNICAL BID (TB)

From

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To,

Dr. Diwakar Kumar  
PI, SERB Project  
Department of Microbiology  
Assam University, Silchar – 788 011, India

With reference to your advertisement dated published in the Newspapers and posted at Assam University Website, I/ We hereby submit the Technical bid for the \_\_\_\_\_ required by you. I / We confirm that I / We are the owners / authorized person to offer you the item as per the desired specifications.

### High Speed Refrigerated Centrifuge:

Serial no.	Technical Specification	Details to be filled by offerer
1.	RCF:	
2.	RPM:	
3.	Acceleration time:	
4.	Deacceleration time:	
5.	Noise level:	
6.	Wide temperature range:	
7.	System should able to store how many routine procedures and no. of programmable buttons.:	
8.	Built-in condensation drain to eliminate water accumulation and prevent corrosion (Y/N):	
9.	Automatic RPM to RCF conversion (Y/N).:	
10.	Able to maintain 4 °C at max. Speed (Y/N).:	
11.	Short Spin Function (Y/N)	
12.	Set RPM" function - time count starts after reaching the set rpm (Y/N).:	
13.	Fast Temp function - to start a temperature control run directly (Y/N).:	

14.	Fast Temp pro function - to start a temperature control run with defined start time (Y/N):.	
15.	ECO Shut off Function to reduce energy (Y/N):.	
16.	Built in condensation drain to eliminate water condensation (Y/N):.	
17.	automatic imbalance detection, over speed detection and temperature protector (Y/N):.	
18.	Quick lock technology for quickly opening and closing the rotor lid (Y/N):.	
19.	Power supply:	
20	Dimension (WxDxH):	
21.	PTFE-coated Rotor FA-45-24-11-HS, incl. rotor lid, for 24 x 1.5/2.0 ml tubes provides speed upto 30,130 x g, and 17,500 rpm.:	
22.	Fixed Angled Rotor F-35-6-30, incl. rotor lid, for 6 x 50 ml centrifuge tube, rotor comes with adapters for 15 and 50 ml Falcon / Conical tubes. The 50 ml adapter can also handle 50 ml skirted Falcon / Clonical tubes. Maximum speed 7,197 x g (7,830 rpm). :	
23.	European CE certified/ USFDA and should possess an IVD conformity (Y/N):.	

### **Orbital Shaking Incubators:**

<b>Serial no.</b>	<b>Technical Specification</b>	<b>Details to be filled by offerer</b>
1.	Wide temperature range:	
2.	Power Supply:	
3.	Temp. Controller:	
4.	Speed Range:	
5.	Display:	
6.	Drive System:	
7.	Motor:	
8.	Circulation Fan:	
9.	Dimension (IN):	
10.	Dimension (OUT):	
11.	Safety Device:	
12.	Standard plate:	
13.	<b>Plate of Flask:</b>  100ml Flask: 250ml Flask: 500ml Flask: 1000ml Flask: 2000ml Flask: Spring Rock;	

### **Bio Safety Cabinet (class II):**

<b>Serial no.</b>	<b>Technical Specification</b>	<b>Details to be filled by offerer</b>
1.	Wind Velocity and Air Volume:	
2.	Efficiency:	
3.	Main Control, Main Filter and Efficiency:	
4.	Dimension:	
5.	Illumination, UV Lamp and UV Timer:	
6.	Safety Device:	
7.	Working table:	
8.	Utility:	
9.	Door:	



### **Analytical Balance:**

<b>Serial no.</b>	<b>Technical Specification</b>	<b>Details to be filled by offerer</b>
1.	LCD backlit display:	
2.	Capacity:	
3.	Minimum Display:	
4.	Type:	
5.	Pan size:	
6.	Calibration:	

### **BOD Incubator with Digital Temperature Controller:**

<b>Serial no.</b>	<b>Technical Specification</b>	<b>Details to be filled by offerer</b>
1.	Size:	
2.	Capacity:	
3.	Temp. Controlled by Digital Temperature Controller Inner Stainless steel outer body M.S. Duly powder coated (Y/N).:	
4.	Temp. Range:	
5.	CFC Free Compressor (Y/N).:	
6.	Full view inner glass door (Y/N).:	
7.	Lock & Key Arrangement (Y/N).:	
8.	Caster wheel mounted cabinet (Y/N).:	
9.	The inner chamber is properly insulated with special grad PUF to prevent thermal losses. Air Circulating Fan for Uniform temperature (Y/N).:	

**UV-Trans illuminator with Filter:**

<b>Serial no.</b>	<b>Technical Specification</b>	<b>Details to be filled by offerer</b>
1.	Wavelength:	
2.	No. of Tubes:	
3.	Wattage:	
4.	Detection limit:	
5.	Filter area:	
6.	Filter:	
7.	Body:	
8.	UV Protection shield (Y/N).:	

Date:

(Signature of the Offerer)

OFFICE SEAL

**(This format shall be sent in a separate sealed cover super scribing - "Technical BID FOR EQUIPMENTS FOR SERB/Microbiology-2016")**

**PROFORMA FOR SUBMISSION OF FINANCIAL BID (FB)**

From

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To,  
Dr. Diwakar Kumar  
PI, SERB Project  
Department of Microbiology  
Assam University, Silchar – 788 011, India

Having read and understood the Technical bid, I am/ We are furnishing the desired information and submitting our Technical Bid duly signed by our Authorized person. Now we hereby submitting (in separate sealed cover) our Financial Bid for the purchase of equipments.

<b>Serial no.</b>	<b>Specification of Items</b>	<b>Details to be filled by offerer</b>
<b>1.</b>	High Speed refrigerated Centifuge/ Orbital Shaking Incubator/ Bio-Safety Cabinet (class II)/ Analytical Balance/ BOD Incubator with Digital Temperature Controller/ UV-Trans illuminator with Filter	Price in INR /\$/Other currency whichever is applicable (Please mention separately the price of the items, accessories, insurance, etc. under separate heads)
<b>2.</b>	Applicable taxes	To be included
<b>3.</b>	FOR Silchar	To be included
<b>4.</b>	Special Offer/ Discount	To be included
<b>5.</b>	Grand Total	Price in INR /\$/Other currency whichever is applicable
<b>6.</b>	Terms and condition	As applicable
<b>7.</b>	Warranty and after sales service	As applicable
<b>8.</b>	Banking Details (For foreign items)	To be included

Date:

(Signature of the Offerer)

OFFICE SEAL

**(This format shall be sent in a separate sealed cover super scribing - "FINANCIAL BID FOR EQUIPMENTS FOR SERB/Microbiology-2016")**