



**BANKURA UNIVERSITY**  
(West Bengal Act XIX of 2013- Bankura University Act, 2013)  
Main Campus, Bankura Block-II, P.O.: Purandarpur,  
Dist.: Bankura, Pin- 722155, West Bengal  
**Office of the Registrar**

No: RO/BKU/ 317 /2021

Date: 18/08/2021

**Tender Notice**

Sealed quotations are invited from the reputed Manufacturers, Suppliers and Vendors for supply of equipment and installation of the same for two Smart Classrooms in Bankura University.

The quotations are to be submitted to the Registrar, Bankura University, Bankura Block-II, P.O.- Purandarpur, Bankura, Pin- 722155. Last date of submission of quotation is on 25.08.2021 up to 3.00 p.m.

**Eligibility criterion of participation in the tender:**

- a) Bonafide, resourceful and reliable Vendors.
- b) An undertaking should be given stating thereby that the firm has not been debarred or penalized for any reasons out of work by any Government Department.
- c) Subletting of suppliers is strictly prohibited.
- d) The prospective bidders must have valid upto date clearance of Income Tax return / Professional Tax clearance certificate / P.T (Deposit Challan) / PAN Card / **GST registration certificate**.
- e) The prospective bidders must have valid Trade License/ Enlistment.
- f) The Authorized Dealers/ Vendors must have authorization certificate of dealership.
- g) The suppliers who have been delisted or debarred by any government department shall not be eligible in any way.
- h) Past performance for vender will be judged (please attached three largest clients other than the Bankura University).
- i) Rate is to be inclusive of all taxes, transport charges and installation etc.
- j) The rates will be valid upto 31.03.2022.
- k) The University reserves the right to accept or reject any quotation without assigning any reason whatsoever.

**Detail specifications for the Smart Classrooms are given below:**

**Statement showing the Specifications of the following items for 2 nos. of Smart Classrooms**

Sl. No.	Name of the Item	Specifications	Quantity
1.	Projector	<ul style="list-style-type: none"><li>• Type: WXGA</li><li>• Brightness: 3300 Lumens</li><li>• Contrast Ratio: 15000:1</li><li>• Optical Zoom: 1.5x</li><li>• 30 bit-1 BN True Color/ NVIDIA 3DTV Play</li><li>• HDMI Port</li><li>• VGA Port</li><li>• Audio: 2W Speaker</li><li>• Lamp life - upto 10000 hours</li></ul>	2 Nos
2.	Touch kit	<ul style="list-style-type: none"><li>• Eyeris Interactive Kit for White board</li></ul>	2 Nos
3.	Ceiling Mount Kit/Wall mount kit	<ul style="list-style-type: none"><li>• Universal ceiling mount kit</li></ul>	2

4.	High Quality Speaker	<ul style="list-style-type: none"> <li>• 2 Way column speaker</li> <li>• 3mm extruded aluminium</li> <li>• Transducer: 1 x1" dome tweeter</li> <li>• Transducer Complements: 4x2" woofer</li> <li>• Cross Frequency: 6 Khz</li> <li>• Front Cabinet: Aluminium make</li> <li>• Sensitivity: 89dB</li> <li>• Frequency Range: 180 Hz. To 20 KHz. @ - 10 dB Direct mode or better</li> <li>• Frequency Response: 250 Hz. To 6 KHz. @ - 3dB Direct mode or better</li> <li>• Rated Power: Minimum 110 dB @ 30 Watt</li> <li>• Nominal Impedance: 8 Ohms</li> <li>• Power Taps @ 100V: 7.5W, 15W, 30W,60W</li> <li>• Make: Bose/ Sony/Philips/ Sonodyne</li> </ul>	6x2 =12 Nos
5	Power Amplifier	<ul style="list-style-type: none"> <li>• Power: minimum 250 Watts</li> <li>• Frequency response: 50hz - 15khz (<math>\pm 3</math>db) @ 100v</li> <li>• Input connections: Transformer balanced input with male and female XLR input/output sockets</li> <li>• Power output: 250 watts RMS into 100- &amp; 70-volt line/ 4 ohms</li> <li>• Outputs: 100 &amp; 70 volts/4-ohm speaker outputs via I/O barrier strip. Line out to feed additional power amplifiers available from one of the paralleled XLR inputs</li> <li>• Controls: Power switch, Input attenuator</li> <li>• Protection: through built in cooling fan with temperature sensor Indicators of Amplifier status: power on, output meter; mains fail, High temp trip etc.</li> <li>• Signal to noise ratio:-82db or better</li> <li>• Input sensitivity: Max 300mv (set @ 1v)</li> <li>• Input impedance: 10 KOhm or better</li> <li>• THD: less than 0.5% @ 1khz;</li> <li>• Distortion at max power: 0.7% or better</li> <li>• Power source AC: 200V to 250V - 50hz</li> <li>• Form Factor: Rack mount 2U</li> <li>• Make: Bose/Australian Monitor/Precision Audio/AtlasIED</li> </ul>	2 Nos
6.	Wireless UHF Microphone	<ul style="list-style-type: none"> <li>• Wireless UHF Microphone both livelier type and handled type</li> <li>• Receiver's audio frequency response 42hz to 516MHz (<math>-3</math> dB)</li> <li>• Transducer Principal: Dynamic</li> <li>• Pickup pattern: Cardioid</li> <li>• Switching Bandwidth: 823 ~ 865MHz / 865~867MHz / 626~668MHz etc.</li> <li>• Sound pressure label (SPL): 85dB to Max 154dB</li> <li>• Audio output: 6.3 mm jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu</li> <li>• Signal to Noise Ratio: <math>\geq 105</math> dBA or Higher</li> <li>• Total Harmonic distortion: 0.9% or higher</li> <li>• Frequency stability: <math>\leq \pm 15</math> ppm</li> </ul>	4 Nos

		<ul style="list-style-type: none"> <li>Working distance: &gt; 200ft THD @ <math>\leq 0.9\%</math>,</li> <li>Microphone's AF frequency response 40-18,000 Hz</li> </ul>	
7.	Desktop	<ul style="list-style-type: none"> <li>Processor – 10 gen i3 processor, minimum 3.10 GHz Base Frequency, 12MB Cache, 6 core or higher</li> <li>Chipset - OEM logo embossed (No Paint and No sticker) motherboard</li> <li>Hard Drive - 1 TB HDD 7200 RPM</li> <li>Memory: 8 GB DDR4</li> <li>Optical Disk Drive: DVDRW</li> <li>I/O: Minimum 3 PCI/PCIe slot including 1 PCI, 2x M.2 slot, Min. 8 USB Port, one RJ 45 port, 1 VGA Port &amp; 1 HDMI and Audio line in and out both port, Integrated speaker in CPU, Same OEM Make USB Keyboard and Mouse</li> <li>SMPS - Power supply Min. 180W with active PFC minimum 90% efficiency</li> <li>Operating System - Genuine Windows 10 Professional</li> <li>Security - Security for Inbuilt Pre-Boot BIOS Diagnostics, TPM (Firmware)</li> <li>Certification - ISO 9001,14001, ISO 27001 for OEM, TCO 8.0 certification for Monitor Energy star 7.1, EPEAT Certified, ROHS and UL certificate.</li> <li>Monitor - 19.5", 1600x900 or higher LED backlit with VGA, HDMI input</li> <li>Warranty – 3-years onsite warranty.</li> </ul>	2 Nos
8.	White Board	<ul style="list-style-type: none"> <li>6'x8' white board</li> </ul>	2 Nos
9.	Cables & Connectors	As per requirement	

**Sd/-**  
**Prof. Subir Kumar Roy**  
**Registrar (Addl. Charge)**  
**Bankura University**

Memo No. RO/BKU/ 317 /01(03)/2021

Date: 18/08/2021

Copy Forwarded to:

1. The Finance Officer, Bankura University.
2. System Administrator, Bankura University with a request to upload the notice in the university website
3. Central Store, Bankura University
4. Office Notice Board.
5. Guard file

**Sd/-**  
**Prof. Subir Kumar Roy**  
**Registrar (Addl. Charge)**  
**Bankura University**