



**UTKAL UNIVERSITY,
VANI VIHAR, BHUBANESWAR 751004
ODISHA**
www.utkaluniversity.ac.in

Tender Paper
For Procurement of Items/Equipment for
Development of Smart Class Rooms



UTKAL UNIVERSITY,
VANI VIHAR, BHUBANESWAR 751004,
ODISHA
www.utkaluniversity.ac.in

No. UU/Store/ 2022/R- 018

Date: 17/03/2022

TENDER CALL NOTICE

Sealed tenders are invited from the reputed manufacturers/authorized dealers/vendors, for supply and installation of items/equipments for smart class rooms (**30 numbers**) in different Departments/offices of Utkal University. Details of information and tender documents can be obtained from the office of the Registrar, Utkal University on payment of Rs. 1000/- (Rupees one thousand) only (Non refundable) through demand draft drawn in favour of Comptroller of Finance, Utkal University during working hours from 17/03/2022 or can be downloaded from the university website (www.utkaluniversity.ac.in). The tender papers, complete in all respect, must reach the office of the undersigned **by hand or through registered/speed post on or before 28/03/2022 till 3.00 P.M. The sealed tender will be opened on 28/03/2022 at 4.00 P.M.** in the presence of the tenderers or their authorized persons. The bidders are requested to quote for Educational Institution price for various items since we are eligible for the same. The authority reserves the right to accept/reject/cancel/change/modify any part or the entire tender without assigning any reason thereof.

Sd/-Registrar

Eligibility Criteria:

1. Tenders are to be submitted in the prescribed format (enclosed) in the tender paper along with EMD/security amount (1%) of the approximate cost of items or minimum of Rs.1000/- (Rupees one thousand) only as mentioned in the tender paper drawn in favour of the **“Comptroller of Finance, Utkal University”** in shape of a Bank Draft drawn on any Nationalized bank payable at Bhubaneswar. No cash payment shall be received in this regard.
2. Tender forms are not transferable.
3. The validity of tender should be at least for three months or above.
4. Bids have to be given in the desired format separately to supply the equipment with accessories. Bids should be submitted along-with the following documents:
 - (i) Sales Tax, Income Tax, GST Certificate or the Excise License etc. necessary for items.
 - (ii) Declaration certificate
 - (iii) Non-assessment Certificate in case of Dealers /Stockist outside the state of Odisha.
 - (iv) Authorization Certificate from the Company.
 - (v) All rates in INR should be inclusive of all taxes and F.O.R destination (Utkal University, Bhubaneswar).
 - (vi) Installation charges, Delivery, Packing, Forwarding charges etc. (if any) should be included in quoted price and no extra cost will be entertained after delivery.
 - (vii) Warranty period of items (comprehensive on-site).

- (viii) Credential and list of organization where the bidders supplied the similar items must be attached along with the tender paper.
- (ix) Firms quoting with Original Equipment Manufacturing (OEM) certificate in India, sizable annual turnover of the manufacturer, authorised service centre in Odisha for providing technical support as and when required, previous experience of supplying/installing similar items to different organisations will be preferred over others.
- (x) The OEM should have been certified with ISO 9001:2015 or better.

N.B.:

Last date for submission of **sealed tender paper is 28/03/2022 up to 3.00 p.m.** in the Office of the Registrar, Utkal University, Bhubaneswar.

1. Bank Guarantee for EMD is not valid.
2. The authority may accept/reject/cancel/change/modify any part cancel the tender as a whole or a part without assigning any reason thereof.
3. All supplies have to be made within 30 days of the confirmed order received by the firm otherwise the order shall be treated as cancelled.
4. EMD of the parties whose Tender is not accepted will be refunded on submission of a stamped receipt. No interest will be paid on the EMD of the unsuccessful bidders.
5. Total pages of Tender paper: **10** (Ten including cover page).

Sd/ Registrar
Utkal University

1. Interactive Panel
TENDER FORMAT

Dated:

From:
M/S _____

To
The Registrar
Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of "Comptroller of Finance, Utkal University, Bhubaneswar" D.D. No....., Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	Panel Screen size: 75" and 86" (Quote separately) Panel type: IPS Resolution: UHD 3840 × 2160 pixels or better Aspect ratio: 16:9 Brightness: ≥ 350 cd/m ² Contrast ratio: 1200:1 or better Dynamic contrast ratio: 30,000:1 Response time: 8 ms or less Orientation: Landscape Light life : 30,000 hours or above	
	Glass Thickness: Toughened/tempered – 4 mm or more Anti-glare coating	
	Touch screen Touch technology: Infrared Touch points: minimum 20 points Touch response time: < 4 ms Touch accuracy: ± 1.0 mm Writing tool: Pen or finger	
	System (Android) CPU: Dual core A73+Dual core A53/ 1.5GHz or Higher GPU: Mali-G51MP4 Memory/Storage: 4GB or higher / 32GB or higher OS: Android 8.0 or later	
	Build in peripherals: Inbuilt internal speaker, 2x16 watt or more front facing speaker, Sensors for light, temperature and humidity etc.	
	Connectivity HDMI Input/Output: 3 or more HDMI ports SPDIF Output: SPDIF out and LAN out (minimum one port) USB Input: 3 or more Others: VGA, VGA audio in, mic (in/out), slot for camera, OPS, RS232 (Minimum one port)	
	Power: AC 100-240V 50/60Hz	
	Built in software Software support with provision for White boarding, Screen Sharing on Panel, Account Management System (AMS), Broadcast Software Solution	
	Accessories: All necessary accessories like cable, remote, wall mount kit, stylus, pen tray, etc. to be included	
	Others <ul style="list-style-type: none"> Interactive panel must have facility to mount on floor stand or wall brackets The product must have BIS certification (attach a certificate) 	

- Scope of work consists of supply and installation of units in the smart class rooms at different locations of Utkal University.

- The system should come up with all the accessories, like control cables, power cables, tracking software, hardware, setup, mounting etc.
- Warranty: Minimum of 2 years onsite service support.
- Required training to be given to the users.

Signature of the Manufacturer
/Authorized Dealer with seal

2. E-Podium
TENDER FORMAT

Dated:

From:

M/S _____

To

The Registrar

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:.....)

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of
"Comptroller of Finance, Utkal University, Bhubaneswar" D.D. No....., Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	Top & Body/ Mechanism/ Keyboard/ Mouse Tray	Metallic Top and Body.Top Sliding Mechanism, sliding Tray for keyboard/Mouse
	Visualiser Tray/ Wheels/ Rack Space	Provision for Visualiser with a Sliding Tray. Wheels for easy movement. Rack Space for keeping Amplifier, CPU and others Side Drawer (Made of Steel with lock) for Visual Presenter Keyboard Drawer With Lock
	Screen/Monitor	Size & type: 21.5 Inches or more. Touch Screen Monitor (LED backlit). Resolution: 1920x1080. Luminosity: 250 cd/m ² or more. Touch object: Finger / Dummy Pen / Any Opaque Object Input/Output: VGA, HDMI or DVI Input port, USB port for PC. Power of 100 ~ 250VAC
	Gooseneck Microphone	Place: On top. Frequency: 40 Hz to 17,000 Hz or better. Cardioids Polar Pattern. Provision of 3 PIN XLR connector.
	Wireless Microphone System	Supplied with Wireless Handheld x1 & Lapel/Collar x1 Microphones. Microphone receiver with individual XLR Outputs & one mixed Output. Microphones & Receiver should work on UHF frequency band. Frequency response: 40Hz to 17000 Hz or better.
	Amplifier	Wattages: 100 Watts (50Wx2) or higher at 4 Ohms; S/N Ratio: >80dB; Inbuilt with DSP. (Amplifier from same OEM with that of DSP is preferable).
	DSP	DSP with 100% Full Duplex Echo Cancelling (no attenuation during full-duplex). 1x 6.5mm Mic input, 1xUSB 2.0 Audio USB port, 1x 2RCA Line-In port. Provision of Mic out as 2x XLR ports, Line-out as 1x 2RCA port. DSP should be Rack Mountable. Acoustic Echo Cancellation for all the microphones. Provision for dual capability i.e Local Sound Reinforcement and Far end Audio for Video conferencing without any Noise and Echo. Should have USB port for integrating with Unified Software solutions like In VC, Vido, Skype, etc. Others: Inbuilt Amplifier, inbuilt Receiver for Wireless Microphones.
	Speakers	Provision of four wall mount speakers. Two way of woofer size of about 5.25" & tweeter size about 1". Impedance: 8 ohms, Sound pressure level (SPL): About 90dB. Wattage: 50 Watts or more. The speaker should be part of package of DSP & Amplifier and preferably it should be from same OEM of DSP.
	Laptop Interface with integrated Advance Switcher	VGA (in/out) port, HDMI Ports, Audio port, 4 USB Ports, Power socket. Integrated button pad controller to switch between HDMI, VGA and USB Ports. HD video inputs for CPU, 2xLaptop, 1xVisualiser or more
	Certificate	CE, FCC, RoHS certified.

- Scope of work consists of supply and installation of units in the smart class rooms at different locations of Utkal University.
- Security- All drawers, sliding trays and doors are lockable
- The system should come up with all the accessories, like control cables, power cables, tracking software, hardware, setup, etc.
- Warranty: Minimum of 2 years onsite service support.

Signature of the Manufacturer
/Authorized Dealer with seal

3. Camera with remote controller

TENDER FORMAT

Dated:

From:

M/S _____

To

The Registrar

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of "Comptroller of Finance, Utkal University, Bhubaneswar" D.D. No....., Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	Sensor	Sensor should be 1/2.7 inch high quality 2.07MP HD CMOS sensor or better.
	White Balance/ Gain/ Back Light Compensation	Option of Auto or Manual White Balance with auto Gain Control and selectable Back-Light compensation.
	Noise Reduction	2D & 3D or better
	S/N ratio	S/N Ratio: ≥ 55 db.
	Zoom	12x optical zoom or better & 12x Digital Zoom or more
	Interface/ Signal Support/Control Port	Standard Video Output and should support USB 3.0 or better. Support 1080p@60fps and RS 232 port for communication.
	Presets/ Field Of View/ Pan Range/Accessory	At least 128 Position Presets or better. 72 Degree or better field of view. Pan Rotation Angle of -170 degrees to +170 Degrees or better. Tilt range of -30° to +30° or more IR remote control as an included accessory. Wall mount kit.
	Certificate	CE, FCC & RoHS Certified

- Scope of work consists of supply and installation of units in the smart class rooms at different locations of Utkal University.
- The system should come up with all the accessories, like control cables, power cables, tracking software, hardware, setup, mounting etc.
- Warranty: Minimum of 2 years onsite service support; The camera will be used 10-12 hours per day on a continuous basis and the supplier to certify that the product fit for such use.
- Required training to be given to users.

Signature of the Manufacturer
/Authorized Dealer with seal

4. Online UPS
TENDER FORMAT

Dated:

From:

M/S _____

To

The Registrar

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:.....)

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of “Comptroller of Finance, Utkal University, Bhubaneswar” D.D. No.....,

Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	<p>3 KVA Online UPS / 3 KVA Online UPS (Quote price for 3kVA and 5 kVA separately) Single Phase online UPS with single phase output along with 4 hours battery backup with battery rack, interlinks, battery to UPS cables etc. with following specifications. Specification Inbuilt isolation transformer Back up: 1 hour or more with full load Efficiency on full load: ~ 90% Battery should be SMF and Exide/Amaron/Luminous/Tata/SU-KAM with rating 120Ah/12V or better. MS Rack and IRIT Link for SMF batteries Input Voltage/Input voltage range : Single Phase 230V AC/190 - 265V AC or better Output Voltage : 220V/230V AC ± 1 %; Output 3 pin Indian socket: Two or more Provision for Protections (low voltage/overload/short circuit/over voltage etc.), Audio Alarm, LCD display, Indications, low audible noise level, Bypass, etc. Warranty: Minimum 2 years</p>	

- Scope of work consists of supply and installation of units in the smart class rooms at different locations of Utkal University.

Signature of the Manufacturer
/Authorized Dealer with seal

5. Fire Extinguisher

TENDER FORMAT

Dated:

From:

M/S _____

To

The Registrar

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:.....)

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of "Comptroller of Finance, Utkal University, Bhubaneswar" D.D. No....., Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	Fire Extinguishers (Clean Agent Type) (Branded), Capacity: 2 kg/4kg (Quote separately) Specification: Type: Constant pressure Extinguisher type: HFC, HCFC or equivalent Conforming IS code: 15683 Operating position: Upright To fight fire of Class A, B, C and Electrically started fires. With ISO 9001 and CE certifications, and conforms to ISI standards.	
2.	Fire Extinguishers (Foam based Potable) (Branded) Capacity: 6 L To fight fire of Class A, B, C Squeeze Grip Mechanism for quick and easy use With ISO 9001 and CE certifications, and conforms to ISI standards.	

- Scope of work consists of supply and installation of units in the smart class rooms at different locations of Utkal University. Suitable fittings shall be provided for mounting the extinguisher on wall
- Vendors shall submit the technical catalogue along with certificates and operation instructions.

Signature of the Manufacturer
/Authorized Dealer with seal

5. Air Conditioner
TENDER FORMAT

Dated:

From:

M/S _____

To

The Registrar

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of _____

Ref. Advertisement No. and Date:.....)

EMD/Security Amount: Rs..... (Rupees) only in shape of D.D. in favour of “Comptroller of Finance, Utkal University, Bhubaneswar” D.D. No.....,

Dated:

Sl.	Name of the item and specifications	Unit cost in INR
1.	2 ton split Air Conditioner Specifications Refrigerant : R22 Compressor: Rotary Rating: 3 and 5 Star (Quote separately) Display: Digital Remote type: Cordless with LCD type Power: 220V ± 20 V Condenser Coil: Condenser coil material shall be Copper Front grills: Attractive front grills with Auto swinging facility. Mounting: Suitable for High Wall mounting complete with mounting brackets and required hardware Make: Voltas / Carrier / Blue Star / Samsung / Daikin / LG / Videocon / Panasonic / Hitachi Guarantee: 1 year from the date of commissioning.	

- Scope of work consists of supply and installation of units in different smart class rooms at different locations of Utkal University.
- Vendors shall submit the technical catalogue along with offer and clarify the standard length of copper tubing, electrical supply cable and drain pipe which are to be supplied with machine at free of cost.
- No joints in cables are allowed. Successful Vendor shall visit the site after receipt of PO for actual physical measurement and bring the materials accordingly.

Signature of the Manufacturer
/Authorized Dealer with seal