

**OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY  
DIBRUGARH :: ASSAM  
PIN: 786 004**



**BID DOCUMENT**

**FOR**

**NAME OF THE WORK: Supply, Installation and Commissioning of Digital Classrooms  
at Dibrugarh University**

**e-TENDER No: DU/NIT-2023/Digital Classroom/174 dated 11.04.2023**

# CUT-OUT SLIP

## Technical Bid

**NAME OF THE WORK:** Supply, Installation and Commissioning of Digital Classrooms at Dibrugarh University

**e-TENDER No: DU/NIT-2023/Digital Calsroom/174 dated 11.04.2023**

SUBMISSION DUE DATE & TIME : 02.05.2023 up-to 5.30 P.M.

**FROM:**

**TO:**

NAME & ADDRESS:

THE REGISTRAR  
DIBRUGARH UNIVERSITY  
DIBRUGARH, ASSAM

(To be pasted on the envelope containing hardcopy of "Technical Bid")



## **OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY :: DIBRUGARH**

No. DU/NIT-2023/Digital Classroom/174

Date: 11.04.2023

### **e-Tender Notice**

Open tenders are invited through e-tendering process from Manufacturers of nationally / internationally reputed brand or its authorized dealer / distributor for **Supply, Installation and Commissioning of Digital Classrooms at Dibrugarh University**. For details, please visit the website [https:// assamtenders.gov.in](https://assamtenders.gov.in)

Detailed specification of the items, terms & conditions *etc.* are given as Annexure at Part-B. Last date of submission of Tender as per annexure at Part-B with all relevant papers is **02.05.2023 up-to 05:30 PM** to be submitted at the office of the Registrar, Dibrugarh University, Dibrugarh, Assam.

Availability of Bid papers	From 11.04.2023	
Last date for receipt of Bid	02.05.2023 upto 5:30 P.M.	
Time & Date of opening of Bid	03.05.2023 at 02:30 P.M.	
Place of opening of Bid	Office of the Registrar, DU	
Cost of Tender Document	Rs. 1000/- (Non-refundable)	To be paid online at assamtenders.gov.in
EMD	Rs. 2,50,000/-	

The tender should be separately submitted in 02 (two) parts, *i.e.*, **Part - I TECHNICAL BID** and **Part – II FINANCIAL BID**. The technical bid shall be opened on the above-mentioned date and time and the financial bid of only those bidders who qualify in technical bid shall be opened on the same date or at a later date which shall be intimated to the tenderer whose technical bids are found to be valid. Dibrugarh University reserves all the rights to reject any or all the tenders without assigning any reason thereof.

The Bidder shall submit both technical and financial bids on-line at [assamtenders.gov.in](https://assamtenders.gov.in) portal. One hard copy of technical bid along with supporting documents and clearly marked as **“HARD COPY of Technical bid”** shall have to be submitted at the office of the Registrar, D.U. **Hard copy of Financial Bid or Cost of Tender Document/EMD as Draft/Cheque etc, will not be sent to Dibrugarh University under any circumstance.** In the event of discrepancy between online & manual technical bid, sending of hard copy of financial bid or sending of Cost of Tender Document/EMD as Draft/Cheque etc the bid will be disqualified.

Sd/-  
**Registrar i/c**  
Dibrugarh University

### **Copy to:**

1. The Chairperson, Tender Opening Committee, D.U., for information.
2. The Deputy Registrar (F&A) i/c, D.U. for information.
3. The Programmer, D.U., with a request to upload the NIT at D.U. website.
4. Office File

Sd/-  
**Registrar i/c**  
Dibrugarh University

## PART A - TERMS AND CONDITIONS

### A1. General Information

The tender bids duly complete in all respects, along with the necessary documents should be submitted to the Registrar, Dibrugarh University. The Technical Bids so received shall be opened on **03.05.2023 at 02:30 P.M.** in the Office of the Registrar, Dibrugarh University in the presence of the representatives of the bidders. The Financial bids of the Bidders shall be opened on the same date or at a later date to be intimated to the bidders whose Technical Bids are found to be valid. Right to reject any or all Tenders, without assigning any reason thereof is reserved by Dibrugarh University.

### A2. Terms and Conditions of Supply:

1. All the manufacturers/ authorized dealers should submit a brief profile about their company and the facilities available with them of the quoted items. Their turnover and important firms/ Government Institutes/ P.S.U.s *etc.* to which they are supplying quoted items, should also be mentioned.
2. The last date and time for the submission of the bids is 02.05.2023 up-to 5:30 P.M and the bids shall be valid for 90 days.
3. Technical specifications of the instruments/equipments are given in **Annexure-I** to these papers (Part B) and the required quantities are listed in **Annexure-II**.
4. Supplier should read carefully and understand all the instructions and terms and conditions, *etc.* before participating in the bid.
5. Suppliers shall mandatorily submit the following documents in their '**Technical Bid**':
  - i) **A Brief Profile of the Company/Firm** along with their addresses and contact details of a responsible representative for any query/correspondence.
  - ii) A duly filled and signed **Check-List** as shown in **Annexure-III**
  - iii) VAT/TIN/GST Registration Certificate.
  - iv) PAN Card
  - v) Proof of submission of Tender Fee/EMD at [assamtenders.gov.in](http://assamtenders.gov.in) or Documentary proof justifying its exemption (e.g., MSME/NSIC/SSI/etc.).
  - vi) **Detailed Technical Specifications** of each item/service/work offered by the Supplier. The document should be duly superscribed as "**Offered Technical Specifications**" and presented in the format as suggested in **Annexure-IV**
  - vii) Technical compliance sheet in a tabular format as shown in **Annexure-V** and duly superscribed as "**Technical Compliance Sheet.**"
  - viii) **Technical Literature** regarding the offered products including Brochures/Datasheets/Pictures/Sketch/Diagrams *etc* with a cover page duly superscribed as "**Technical Literature**".
  - ix) Valid Authorization specific to this tender from Original Equipment Manufacturer (OEM) or Declaration in case OEM itself is the bidder.
  - x) All valid documentary proof of eligibility as per '**Bidders Eligibility Criteria**' mentioned in this Tender Document.
6. **Please read carefully** that the Supplier shall submit their '**Financial Bid**' **ONLINE ONLY** in the BoQ format uploaded to the [assamtenders.gov.in](http://assamtenders.gov.in) portal against this particular tender. They **SHOULD NOT** send hardcopy of price bid to the University under any circumstance. Defying this clause will lead to **DISQUALIFICATION** of their bid. In the Commercial Bid rates should be mentioned as per BoQ. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the unprotected cells with their respective financial quotes, GST as applicable (total GST per item to be inserted in BoQ) and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without

changing the file name. If the BoQ file is found to be illicitly modified by the bidder, the bid will be rejected.

7. The Technical Bid shall be opened, on 03.05.2023 at 02:30 P.M. or on the next working day if the offices of the University remain closed due to any reason.
8. Financial bids of bidders who qualify in the Technical Bid evaluation will be open on the same date or at a later date to be intimated to the bidders. Lowest bidder will be selected on basis of total cost of the work and not item-wise comparison.
9. The delivery and installation should be completed within 3 month or as specified from placing of the order. No extension shall be granted to the contractors/suppliers for the period of delivery, under any circumstances.
10. If the supplier fails to deliver the article as per the delivery schedule, the University shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers.
11. The goods, articles, materials supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. No articles/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit shall be accepted.
12. The bills of the suppliers shall be paid by the University after all the materials/articles/equipments have been received and installed, tested and commissioned along with proper documentation.
13. An amount equal to **10% of the total order value** shall be retained by Dibrugarh University as **Security Deposit for a period of 3 Years** from the date of completion of work. Any penalty imposed on the vendor shall be deducted from the Security Deposit.
14. Vendor must provide an undertaking that any service request will be addressed within three working days. Any delay beyond three days must be compensated by extending the warranty period with equivalent number of days.
15. The tendering firm must provide proof of documents for executing similar works earlier.
16. In the event of any breach of the terms and conditions of the supply, the University may terminate the contract placed with the supplier and forfeit the security deposit of the supplier.
17. Authorization from the respective Original Equipment Manufacturer (OEM) for the quoted products to be provided mentioning the tender enquiry no. and date.
18. Copy of product literature and catalogue, testing report, BEE rating, ISO etc. to be provided.
19. The quantity as mentioned at Part-B (Annexure-II) may be increased or decreased at the time of placing Order as per requirement.
20. Bidders are advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the bidders' risk and may result in the rejection of the bid.
21. This tender document is not transferable.
22. **Participation in the tender process implies that the bidder has read and understood this bid document and that the bidder will abide by the rules and regulations of Dibrugarh University.**

### **A3. Bidder's Eligibility Criteria:**

- 1) The Bidder must be Company/Firm incorporated under the Indian Companies act 1956 or Indian Partnership Act 1932
- 2) The Bidders should have an Annual Average Turnover of not less than Rs. 75 Lakhs in the last three financial years. Documentary evidence in this regard should be enclosed along with Technical Bid.
- 3) The Bidder should have executed at least two numbers of similar orders in Govt./Semi-Govt. Institutions of value not less than Rs. 30 lakhs each in the last three financial years.
- 4) The Bidder should have valid ISO 9001 Certificate. Scan copy of ISO Certificate wherein the Certificate Serial Number is clearly visible must be enclosed along with the technical bid.

- 5) The Bidder & OEM should not have been blacklisted in anywhere in India or abroad. A self – declaration letter by the Bidder (From Director/VP/CEO of the company), on the company’s letter head should be submitted along with technical bid

#### **A4. Scope of Work:**

1. The bidder shall supply and set up Digital Classrooms at designated Departments/Centre/Other locations of Dibrugarh University.
2. The bidder shall organize a training session regarding operation of the Digital Classroom for the teachers & staff at each installation location.
3. All Supply, Installation, Testing, Commissioning and Training shall be governed by the terms and conditions mentioned herein this document and shall adhere to standard fair professional practices.
4. Provide onsite warranty and maintenance service for the Equipments as per warranty term of individual items. All complains must be attended onsite within 7 days, failing which the University may impose a penalty, as the University may dim fit, which will be deducted from the Security Deposit.

#### **Note:**

- a) Bidders are advised to read carefully the Terms and Conditions of supply before recording the rates in this Schedule.
- b) No erasures or overwriting shall be allowed, unless they are authenticated under the full signature and the seal of the tenderer.
- c) The University reserves the right to:
  - I. Accept/reject any/all tenders without assigning any reason thereof.
  - II. Revise the quantities at the time of placing the order without change in the rate quoted by the bidder.
  - III. Add/modify/relax or waive any of the conditions stipulated in the tender document whenever deemed necessary to ensure greater competition.
  - IV. Award the contract to one or more bidders for the items covered by the tender.
  - V. Reject any work done by the supplier if found to be of low quality/not conforming to industry standard practices and norms or any other justifiable reason.

**Detailed Technical Specifications\*:**

(\*each item of this list must be offered by the supplier, otherwise the bid will be considered incomplete)

Each Smart Classroom will be equipped with following items and their interconnections:

1. Interactive Flat Panel with OPS
2. HD Camera for Video Conferencing
3. Public Address Lectern
4. 1 KVA Online UPS

**1. Interactive Flat Panel with OPS**

Sl. No.	Feature	Specification
1	Screen Size	86” Diagonal
2	Technology	DLED
3	Aspect Ratio	16:09
4	Resolution	3840x2160(4K-UHD resolution)
5	Colors	1.07B (10bit)
6	Contrast Ratio	15000:1 or higher
7	Brightness	450 cd/m2 or higher
8	Response time	4ms or better
9	Viewing Angles	178°:178°(Horizontal/Vertical)
10	Backlight Life	50,000 Hours or more
11	Touch Technology	Infrared Touch
12	Touch Point	10 points or higher
13	Input/ Output Interface or more	3 x HDMI Input (3840x2160); 1x Display Port Input (3840 x 2160); 1xAudio in; 1xAudio Out; 1xRS232 Serial interface;1x PC Slot; 1xSPDIF;1xRJ45LANPort ;2xUSB2.0Type A; 3x USB 3.0 Type A; 2x USB 2.0 Type B (for touch);
14	Connectivity	WIFI, RJ45 wired and Port for OPS
15	Speakers	2*15W or better
16	Installation Type	Wall Mounting with proper connections to all accessories supplied/purchased.
17	OPS	i5;8 <sup>th</sup> Gen; 8GB RAM;128GB SSD with Windows10.
18	Smart System	RAM – 3GB, Memory – 32 GB, Android 8 or Higher.
19	Interactive Software:	<ol style="list-style-type: none"> <li>1. Multi-colour, multi-size-Pen, Brush, Highlighter, Texture, Eraser Shapes, Text, Auto Handwriting and shapes recognizing.</li> <li>2. Compatible to crop image/picture from any browser.</li> <li>3. General education too is required for teaching with Geometry tools, calculators, soft keyboard etc.</li> <li>4. Screen lock, screen recording, save, share through mail, printer, network etc.</li> <li>5. Video playing features directly from YouTube etc., PDF and PPT viewer, multi-media player.</li> </ol>

		The above list of features is indicative only i.e., not limited. Any latest feature important for teaching-learning may be proposed.
20	Other Features	Screen Broadcast Screen Mirroring / Cast Display Management Solution Interactive Whiteboard Tools
21	Certifications	CE/CB, BIS, FCC, UL & RoHS Certified
22	OEM ISO Certifications	The Interactive Panel OEM must be ISO-9001, ISO -14001 and ISO 45001 certified.
23	Warranty	3 Years Comprehensive Onsite Warranty

## 2. HD Camera for Video Conferencing

<ul style="list-style-type: none"> <li>a) Full HD 1080p 30 fps video camera with remote controlled Pan, Tilt &amp; Zoom</li> <li>b) 10X HD Zoom</li> <li>c) Auto focus</li> <li>d) Field of View – 90 degrees</li> <li>e) USB Plug and play</li> <li>f) Accessories – Remote, Mount Bracket</li> <li>g) 3-year Onsite/Replacement warranty</li> </ul>
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## 3. Public Address Lectern

Sl No.	Feature	Specification
<b>General Description of PA Lectern</b>		
1	Compact Podium Type Public Address Lectern System with Built-in 90W Class D Amplifier, in-built speakers, detachable 18" Gooseneck Condenser Microphone and reading light, Digital Multimedia Player, built-in Dual Channel VHF wireless receiver with two wireless microphones, provision for 6.3mm phone plug connector for connecting auxiliary sources and receiving mixed output of amplifier.	
<b>Amplifier</b>		
2	Power Output	60 Watts Rated; 90 Watts Max
3	Input Channels	Mic-1(Gooseneck Mic): 8mV, Mic-2: 5mV, Line: 100mV, Aux : 200mV
4	Frequency Response	50-16,000Hz
5	Tone Control	Bass $\pm 5$ dB at 100Hz, Treble $\pm 5$ dB at 10kHz
6	MIX Output	775mV
7	Digital Multimedia Player	MP3 recorder player with USB, SD, MMC card & Bluetooth
8	USB Charger Outlet	DC 5V, 1A
9	External Speaker Impedance	4 $\Omega$ to 8 $\Omega$
10	Power Supply	AC 220-240V, 50/60Hz
11	Power Consumption	AC 100VA
12	VHF MICROPHONE	Handheld Transmitter
13	VHF Microphone Element	Dynamic, Cardioid
14	RF Output Power	15mW (max.)
15	Power Requirement	3V (2x1.5V AA Pencil Cells)
16	Current Consumption	< 100 mA



<b>Built-in Dual Channel VHF Receiver</b>		
17	No. of Wireless Microphones	2
18	Microphone Element	Dynamic, Cardioid
19	RF Output Power	15mW (max.)
20	Frequency Response	50 - 15,000Hz
21	Power Requirement	3V (2x1.5V AA Pencil Cells)
22	Current Consumption	< 100 mA
<b>Accessories</b>		
23	Noise Free Audio Cable	2 nos 5 meter 6.3mm to 3.5mm Phone plug Jack Noise Free Audio Cable
24	Warranty	The PA Lectern shall be covered under 3-years Onsite Warranty.

#### 4. 1 KVA Online UPS

<b>Sl. No.</b>	<b>Parameter</b>	<b>Specifications</b>
1	<b>Configuration</b>	<b>1 KVA</b> IGBT based On-Line UPS Double conversion architecture. Pure Sinewave Output
2	<b>Capacity</b>	<b>1 KVA / 900 Watts</b>
3	<b>AC Input Voltage Range</b>	160-280 V AC, 1 Phase @100% load
4	<b>Input Frequency</b>	50Hz
5	<b>AC Output Voltage</b>	220/230/240 V AC, 1-phase $\pm$ 1% (Sine Wave Output)
6	<b>Output Frequency</b>	50 Hz $\pm$ 0.05 Hz
7	<b>Overload Capacity</b>	110% for 10 minutes, 130% for 01 minute
8	<b>Harmonic Distortion</b>	<2% for Linear Loads and <5% for non-linear loads
9	<b>Crest Factor</b>	3:1 or better
10	<b>Indications &amp; Audible Alarms</b>	Overload, Load On Mains, Load On Battery, Battery Low
11	<b>Digital Metering</b>	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
12	<b>Battery Back-up &amp; Other Details</b>	The system must be capable of providing requisite battery back-up time of <b>60 Minutes</b> using VRLA Sealed Maintenance Free Batteries with each UPS.
13	<b>Certification</b>	BIS Certification
		CE Certification (IEC 62040-1, IEC 62040-2 & IEC 62040-3 Standards)
		ISO 9001, ISO 14001, OHSAS 18001 certified.
		RoHS Compliance
		E-Waste certification from Central Pollution Control Board, Govt of India)
14	<b>After Sales Support &amp; Manufacturer's Credibility</b>	UPS OEM Should have own registered office in Assam for at least 10 years with service engineers on company's own payroll for ensuring prompt service support. (documentary evidence to be provided)
		UPS OEM and Bidder should not have any past history of blacklisting from any government/PSU organization.
		UPS OEM must have valid Govt Electrical License
		UPS OEM Should have their own service centres in Dibrugarh/Tinsukia with adequate technical manpower and spares for ensuring 24 x 7 x 365 support

		UPS OEM should have ongoing service & maintenance contracts for at least 500 nos. On-Line UPS Systems to Govt./PSU organizations in Assam as proof of having 24 x 7 service support capabilities and competency along with their Client references. Details to be provided
15	<b>Warranty</b>	Warranty should be for 2 Years on both UPS and Battery

### 5. Quality and Conditions of Supply and Installation

<b>Particulars</b>	<b>Conditions</b>
Supply	<ol style="list-style-type: none"> <li>1. All items will be delivered on working days during office hours in the presence of a representative of the supplier. The University shall under no circumstance receive any item on non-working days or beyond office hours.</li> <li>2. All freight and labour charges will be borne by the supplier.</li> <li>3. Supplier shall be responsible for safety and security of the supplied items before handing-over the project.</li> <li>4. The University reserves the right to reject any sub-standard or faulty/damaged item supplied.</li> </ol>
Installation	<ol style="list-style-type: none"> <li>1. All installation to be carried out by trained professionals of the supplier. The work will be supervised by designated officials of Dibrugarh University from time to time and any instructions issued in compliance with this tender document must be entertained.</li> <li>2. Quality of installation must be to the satisfaction of Dibrugarh University and all industry standards for quality to be followed.</li> <li>3. All occupational health and safety norms and regulations mandated by the Govt. of Assam to be strictly followed by all engaged work force. The supplier shall be responsible for any damage to life or property resulting from any accident during installation or any other phase of the work.</li> <li>4. No property of Dibrugarh University shall be damaged/stained during installation. In the event any such occurrence, the supplier shall be liable to repair the damage at their own cost.</li> <li>5. All waste/rubbish generated during installation will be cleaned by the supplier at the end of each working day.</li> <li>6. Food and Lodging of all engaged work force to be arranged by the supplier.</li> </ol>

**Quantities Required****1. List of Items Required:**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Quantity*</b>
1	Interactive Flat Panel with OPS	1 no.
2	HD Camera for Video Conferencing	1 no.
3	Public Address Lectern	1 no.
4	1 KVA Online UPS	1 no.
5	Supply, Installation, Testing, Commissioning, Training, etc	1 Job

**\*Quantity of supply may be increased at the time of placing order. The supplier must be capable of supplying at-least 20 sets of the Digital Classroom setup at a time within 21 days of placing order.**

**ANNEXURE-III****CHECK-LIST***(For documents to be mandatorily submitted)*

<b>Sl. No.</b>	<b>Particulars</b>	<b>SUBMITTED</b> Please respond in YES/NO/Remark (if any)
1	Brief profile of the Company/Firm with contact details.	
2	<b>Annexure III</b> (copy of this check-list itself, duly filled-in and signed with company seal)	
3	Copy of PAN Card	
4	Copy of GST Registration Certificate	
5	Proof of submission of Tender Fee/EMD at <a href="http://assamtenders.gov.in">assamtenders.gov.in</a> or Documentary proof justifying its exemption (e.g., MSME/NSIC/SSI/etc.).	
6	Offered Technical Specifications in tabular format against each item in <b>Annexure I</b>	
7	Technical Compliance Sheet as in <b>Annexure V</b>	
8	Technical Literature of each offered items.	
9	OEM Authorization/Declaration etc. specific to this tender.	
10	Interactive Panel OEM ISO 9001, 14001 & 45001 Certificate	
11	Bidder ISO 9001 Certificate	
12	Proof of Incorporation under Indian Companies Act 1956 or Indian Partnership Act 1932	
13	Trade License of the bidder	
14	Copy of the audited Profit & Loss Statement & Balance Sheet of the firm and Certificate from the Chartered accountant clearly stating the turnover for last three financial years.	
15	Declaration regarding Non-Blacklist of Bidder anywhere in India or abroad on Bidders Letterhead.	

## ANNEXURE-IV

### Offered Technical Specifications

(Must be duly filled, signed by the bidder, affix its seal and be submitted with the Technical Bid)

<b>Sl. No.</b>	<b>Particulars</b>	<b>Detailed Technical Specifications</b> (Make and Model of offered items must be mentioned)
1	Interactive Flat Panel with OPS	
2	HD Camera for Video Conferencing	
3	Public Address Lectern	
4	1 KVA Online UPS	

**Signature & Seal of Bidder**

## ANNEXURE-V

### Technical Compliance Sheet

(Must be duly filled, signed by the bidder, affix its seal and be submitted with the Technical Bid)

Sl. No.	Particulars	Compliance <i>Please respond in YES/NO/Remarks (if any)</i>
1	Interactive Flat Panel with OPS	
2	HD Camera for Video Conferencing	
3	Public Address Lectern	
4	1 KVA Online UPS	
5	Terms and Conditions of Supply and Installation	

I/We declare that all responses regarding Technical Compliance of above-mentioned items are made after **reading and understanding** the Technical Specifications and Scope of Work described in **Annexure I** of this tender document. **The responses made above are true for the items to be supplied and hides no underlying condition/information etc.**

**Signature & Seal of Bidder**