NALANDA OPEN UNIVERSITY

Bargaon, Nalanda 803111

TENDER NOTICE

Tender No: 10/ 2023   **Date**: 18/09/2023

Name of Work: To set up online Studio Classroom at Nalanda Open University, Bargaon campus.

Nalanda Open University invites sealed tenders from eligible and qualified vendors to set up online Studio Classroom at Nalanda Open University, Bargaon campus.
. The aim of the project is to provide online classroom teaching facility to students even in remote areas and to provide free access to students to live classrooms with their problems. There should be two-end interaction facility and large no. of students may join at a time to live classrooms, discuss their problems with faculty. There should be auto recording of live classroom teaching.

Scope of Work: The scope of work includes fixing of Interactive flat panel and attachment required for the same. Details of all components required are provided in Annexure I.

Submission of Tenders: Interested vendors are required to submit their sealed tenders in accordance with the terms and conditions outlined in the tender document. The tender documents can be downloaded from www.nou.ac.in from 18/10/2023 to 27/10/2023   .
Tender must be submitted on given tender form available with this tender notice. Tender paper can be sent by registered post only within last date of submission to Nalanda Open University, Patna office, 3rd floor, Biscomaun Bhawan, near Gandhi Maidan, Patna. Tender papers received after last date will not be entertained. Tender must be submitted in Tender form available with this notice on www.nou.ac.in

Documents required
The Tenderer are required to enclose the following documents failing which the tender would be rejected.

(a) ITR of registered firm for last three years.
(b) Registration of appropriate category.
(c) GST registration papers
(d) Proof of work experience of similar nature of work
(e) Aadhar card
(f) PAN card
(g) EMD – DD for 20000/-(refundable) in favour of Nalanda Open University, payable at Patna
(h) Tender cost -Rs. 1000/-(non-refundable), in the form of DD in favour of Nalanda Open University, payable at Patna

Details can also be obtained on www.nou.ac.in under head Eligibility Criteria

Last Date : The last date for the submission of tenders by post is 27/10/2023 at 04.00 P.M. Tenders received after the specified date and time will not be considered.

Contact Information: For any queries or clarifications regarding the tender, please contact:
Dr. A.N. Pandey, IT Co-ordinator,
Mob. No.: 9431260006, NOU

Tender Opening: Tenders will be opened on 28/10/2023 at 5.00 P.M. in the presence of the bidders who wish to attend.

Nalanda Open University reserves the right to accept or reject any or all tenders without assigning any reason. University reserves the right to distribute the work among more than one vendors. The decision of the university in this regard will be final.

Penalty: Work must be completed in all respect within 30 days of allotment of work failing which 10% amount will be deducted from the final bill. If delayed for more than 2 month this work order will automatically stand cancelled without information.

By order of the Vice-Chancellor, NOU

Registrar, NOU

1. Interactive Flat Panel

Complaince (Yes/No)	Remarks	Technical Specification
Display		
Panel Size		86"
Panel Type		TFT LCD Module with DLED Backlight IPS
Aspect Ratio		16:09
Resolution		3840x2160 (Pixels)
Brightness		400nits
Contrast Ratio		1200: 1 Typ, 5000: 1 Max (DCR Enable)
Response Time		8ms
Bviewing Angle		H=178, V=178 typ.
Backlight Life		30000 Hours (Typ)
Surface Treatment		Hardness: 9H with Anti-Fingerprint Coating & Anti-Glare coating
Platform		
Processor		ARM Cortex A73*4 (1.8 GHz)
RAM		4GB
Storage		32GB
Touch		
Type/Tech.		IR Recognition
Touch Point		20 points touch
Response Time		≤11ms
Scan Rate		≥90HZ
Accuracy Size		90%area +/- 1mm
Pen Tips Size		2.5mm/8mm
Palm Resistant		Yes
Input/Output		
HDMI - IN		x3
RGB/VGA		x1
Display Port		x1
Audio		x1 (PC audio in)
RS232		x1
HDMI - OUT		x1 (on request)
Audio		x1 (Earphone out)
SPDIF		x1 (Optinal)
LAN		
RJ45		x1
USB		

Type A	USB2.0 x1, USB3.0 x4
Type B	x2 for touch
Type C | Power Delivery	60W PD / DP1.2 / 100M Ethernet / USB3.0
Speaker	
Speaker	15W x2 +15W x1 subwoofer
Microphone	
Microphone	Built-in 8-array microphone
Embedded OS	
Embedded OS	Android 9

2. Digital Podium		
Complaince (Yes/No)	**Remarks**	**Technical Specification**
Monitor Features		
Screen Size		21.5" wide LED
Resolution		1920 x 1080
PC Connection		USB Port
Luminosity		250 cd/m2
Input		HDMI
Response time		5ms
Operating System		Windows, Linux, Mac
Digital Signal Processor		
Frequency Range		30Hz - 15000 Hz
Automatic Echo Cancellation		Yes
Automation Gain Control		Yes
Dynamic Gain Control		Yes
Full Duplex		Yes
Line Input		1 x Line Input
Line Output		1 x Line Output
USB Audio Port		1 x USB Port
Operating System		Windows, Linux, Mac
Multi Channel Digital Signal		
Microphone Option		1 lapel + 1 Handheld
Frequencies Response		50 Hz-18000 Hz
Antennas		2 x 3dBi
Output		Balanced Out x 2, Mixed out x 1
Volume Control		Yes
Amplifier		Yes
Line Input		1 x Balanced, 2 x Unbalanced
Minimum impedance		8 Ohms
Speakers		50 Watts Speaker x 2
Central Controller		
Ethernet		1 x RJ 45 Port

RS 232 Port	1 x RS 232 Port
Relay Switch Port	Screen UP/Screen Down (2 Nos)
Gooseneck Microphone Features	
Cartidge	20mm Condenser
Frequency Response	40-20000 Hz
Polar Pattern	Cardioids
Connectors	3-Pin XLR
Control Pad	
Type	Buttonpad
Cartidge	RS 232
Type	Buttonpad with Buttons : VGA, HDMI, PC, Screen Up/ Screen Down, Mic Mute/Unmute, Volume Mute/Unmute, Volume Up/Down
Laptop Interface	
Laptop Interface	Inbuilt
Video Port for Laptop	1 x VGA, 2 x HDMI
Audio Port for Laptop	1 x 3.5mm Stereo Female Port
LAN Port	1 x RJ 45 Port
USB Port	4 x USB 2.0 Port, 1 x USB 3.0 Port
Video Input Port	2 HDMI x Laptop, 1 HDMI x Visualiser
Switcher	Inbuilt 4 HDMI Input, 2 HDMI Ouput, 1 VGA Output

3. Full HD PTZ Camera

Complaince (Yes/No)	Remarks	Technical Specification
Video		
Video System		1080P@60, 1080P@50, 1080@30, 1080P@25, 720P@60, 720P@50
Sesor		1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode		Progressive
Lens		F3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom		12x Optical Zoom
Digital Zoom		16x Digital Zoom
Minimal Illumination		0.5Lux(F1.8, AGC ON)
Shutter		1/30s ~ 1/10000s
Backlight Compensation		Support
Digital Noise Reduction		2D & 3D Digital Noise Reduction
Video S/N		≥55dB
Camera		
H & V Flip		Support
Image Freeze		Support
Number of Preset		255
USB Featured		
Operate System		Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Video Format		H.265 AVC : max to 1080P@60fps, MJPEG : max to 1080P@60fps

Audio on USB	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ	Support
Network Featured	
Video Compression	H.264/MJEPG
Video Strem	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	1280x720, 1024x576, 720x480
Video Bit Rate	32Kbps ~ 102400Kbps
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support Portocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast
Input/Output Interface	
USB Interface	1 x USB Type-C Jack
HD Output	1 x HDMI
Network Interface	1 x RJ45 : 10M/100M Ethernet Interface
Audio Interface	1 x Line In, 3.5mm Audio Interface

BOQ					
Sl. No.	Particulars	Qty.	Unit	Rate Per Unit	Total
1	**INTERACTIVE FLAT PANEL (86 Inch) 86"** TFT LED Module With DLED Backlight IPS, Arm Cortex A73*4 (1.8GHz) Processor, 4 GB Ram, 32 GB Storage, 20 Points Touch, 15 Watt X 2 Subwoofer Speaker, Embedded Os : Android 9	1	Pc.		
2	**DIGITAL PODIUM** 21.5" Pen Touch Screen, Gooseneck Microphone, Handle Mic, 50 Watt X 2 Speaker, Stylus, Laptop Interface, Multi-Channel Console DSP, Body Metallic, Keyboard Tray, Safety Lock, Rack For Equipment	1	Pc.		
3	**CPU** 12th Gen Intel Core i5 Processor, 16 GB Ram, 1 TB SSD Storage, 4 GB Graphic Card, Windows 11 (Licenced)	1	Pc.		
4	**FULL HD PTZ CAMERA** 1080P, 12X Optical Zoom, 16X Digital Zoom	1	Pc.		
5	**MONITOR** 42 Inch Full HD TV	1	Pc.		
6	**INSTALLATION** Interactive Flat Panel, Digital Podium, CPU, PTZ Camera With All Accessories & Operating System Traning of Smart Class System	1	Pc.		
7	**SERVICE** On Site Service (24 X 7) for 2 Year After work Completion	1	Pc.		

Eligibility Criteria

Eligibility Criteria

A bidder participating in the procurement process, the following minimum & mandatory prequalification bid / eligibility criteria failing which the concerned bid shall be rejected:

S. No.	Basic Requirement	Specific Requirements	Documents Required	Bidder's Compliance (Yes/No)
01.	Bidder's Legal Entity (Joint Venture or Consortium or Association of bidders shall not be allowed)	The bidder should be duly registered under either the Bihar Shops & Establishments Act, 1958. OR A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932.	i. Company Registration Under Bihar Shop & Establishment Act with minimum 30 nos. of employee (in case of Proprietorship Firm) ii. Registration certificate and Memorandum of Association issued by Registrar of Companies in case of a registered company and in case of another statutory or registered body, certificate of incorporation or registration issued by concerned authority. Power of attorney in favor of the person signing the bid. (in case of company registered under company Act). Partnership Deed and valid registration certificate with the Registrar of Firms in case of Partnership Firms. Power of Attorney in favor of the partner signing the bid, authorizing him to represent all partners of the firm (in case of partnership firm)	
02.	Office Registration	The Bidder must have a registered office in Bihar.	1) Electricity Bill/Telephone bill or last 3 months- on the name of bidder, OR Copy of Rent Agreements.	
03.	Financial Net Worth	The net worth of the bidder should minimum 20 Lakhs as on 31.03.2022, should be Positive.	CA Certificate with CA's Registration Number/ Seal	
04.	The bidder must provide self –attested	i. PAN Card ii. GST Registration Certificate in Bihar, and	Self –attested copies of 1) PAN Card	

	scanned copies.	i. submit proof of GST return for the tax deposited amount of minimum Rs. 2 Lac as Goods and Service tax in financial year 2021-2022 ii. ESIC & EPF registration Certificate Firm must have deposited the EPFO & ESIC Contribution of minimum 30 man-days per month in Last 6 Month.	2) GST Registration Certificate & Payment Challan paid amount 25 lac 4) ESI & EPF registration Certificate & EPFO & ESIC Challan of last 6 months.	
05.	ISO Registration	ISO 9001:2015 Registration Certificate.	Copy of Valid ISO Certificate.	
06.	Undertaking	(i) The bidder must not be Blacklisted/banned/ convicted by any court of law for any criminal or civil offences/ declared ineligible by any entity of any State Government body of public sector undertaking in India or any organisation for participation in future bids for unsatisfactory performance, corrupt, fraudulent or any other unethical business practices or for any other reason, as on the date of submission of the bid documents	Affidavit sworn before public Notary	
07.	Mandatory Authorization	The Bidder must have a valid Manufacturer Authorization certificate for sale/ Service of their equipment's.	Copy of OEM Authorization Certificate	
08.	Mandatory Condition	The bidder must have work experience / work completion certificate of work done in similar nature job.	Copies of Relevant Work Order/Experience / Work Completion Certificate	

By the Order of Vice-Chancellor

Registrar
Nalanda Open University

NALANDA OPEN UNIVERSITY, PATNA, BIHAR
TENDER FORM
To be filled up by the Tenderer

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Advertisement no. …………………………………………………………………………………………………

Name of Tenderer …………………………………………………………………………………………………

Full Postal Address of Tenderer …………………………………………………………………………………

…………………………………………………Mob. No………………………………Email id…………………………….

Registration No …………………………………………………. GST No……………………………………………

PAN No…………………………………………………. Aadhar no……………………………………………………

Signature of the Tenderer

Tender must be submitted in under given   formats

1.

List of Items as per Annexure	Rate

Date   Signature of the Tenderer

Note: Papers that must be submitted alongwith tender paper
1. Registration certificate regarding packaging & transportation work
2. GST registration certificate
3. Proof of previous experience of similar nature of work
4. Aadhar card
5. PAN card
6. IT return for last 3 years
7. EMD in the form of Bank Draft – 50000/-(refundable)
8. Tender cost -1000/-(non-refundable)

IMPORTANT: INCOMPLETE TENDER PAPER WILL BE REJECTED