

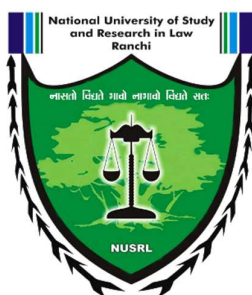
TENDER DOCUMENT

For

Supply, Installation & Commissioning
of Digital Smart Classroom based on Interactive Flat Panel

Tender No. NUSRL/RNC/2025/1128217(e)

Date: 24/02/2025



**National University of Study and Research in Law,
Ranchi**

Instructions of Bid Submission:

The Bidders are required to prepare their bids in accordance with the requirements and submit their bids in hard copy in sealed envelope within the given stipulated time and format.

More information useful for submitting bids may be obtained at:
<https://nusrlranchi.ac.in>

Important Dates and Information

Date of publication of Tender	24.02.2025
Last Date and Time for Receipt of Bids	08.03.2025 up to 04:00 PM
Date & time of Opening of Technical Bids	10.03.2025 at 03:00 PM
Website	https://www.nusrlranchi.ac.in

**TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF DIGITAL
SMART CLASSROOM BASED ON INTERACTIVE PANEL**

The Registrar, NUSRL, Ranchi invites sealed tender in Two bid system (Technical & Financial bid in two separate envelopes) from eligible and qualified Original Equipment Manufacturers / Authorized Distributors of OEM/Authorized Dealers for the Supply & Installation of the smart Interactive panel at Government department / PSU / Higher Education Department or any Organization.

Minimum Eligibility Criteria:

1. The bidder should be an Authorized Partner of OEM. The bidder should submit Manufacturer Authorization Form (MAF) as per the format given in Annexure-III. Consortium or Joint Ventures in any form are not allowed.
2. The bidder must have a valid GST Registration certificate and PAN card. *(Copies of same to be submitted).*
3. The bidder should have a minimum average annual turnover of Rs. 2.00 Crores in last 3 (three) audited Financial Years (FY: 2021-22, 2022-23, 2023-24). *(Copies of last 3 years audited balance sheet with a CA Certificate with UDIN to be submitted).*
4. The bidder should have positive Net Worth in all the last 3 (three) audited Financial Years (FY: 2021-22, 2022-23 & 2023-24). *(Copy of CA Certificate with UDIN to be submitted).*
5. The bidder should have experience of supply, installation, integration, testing, commissioning and successful completion of at least one project of Rs.25 Lacs for smart class or IT Equipment(s) related projects with the Government department / PSU / Higher Education Department or any Organization *(Purchase Order and Completion Certificate to be submitted).*
6. Income Tax Returns for the last 3 years *(Copies of same to be submitted)*
7. The firm should not have been blacklisted or barred by any Department of Govt, PSU, Autonomous Bodies. *(Attach self-declaration on the letter head of bidder)*
8. The bidder should submit Manufacturer Authorization Form (MAF) from OEM of Interactive Panel as per the format given in Annexure-III.

Criteria for bidders Technical Eligibility:

s. No.	Evaluation Criteria	Marks (100)	Maximum Score
1	Legal documents (PAN, GST, Address proof, Letter for Tender Signing authority)	20	
2	The bidder should have a minimum 2 Cr. in the last 3 (three) audited Financial Years (FY: 2021- 22, 2022-23 & 2023-24). (Copies of last 3 years audited balance sheet with a CA Certificate with UDIN to be submitted).	20	Average Annual Turnover: - 3 Cr/ each year = 20 Marks
3	The bidder should have positive Net Worth in all the last 3 audited Financial Years (FY: 2021-22, 2022-23 & 2023-24). (Copy of CA Certificate with UDIN to be submitted).	10	10 Marks
4	The bidder should have experience of supply, installation, integration, testing, commissioning and successful completion of at least one project of Rs. 25 Lacs for smart class or IT Equipment(s) related projects with Government department / PSU / Higher Education Department or any Organization. (<i>Purchase Order and Completion Certificate to be submitted</i>).	20	No. of Projects: - 1 Project = 20 Marks.
5	Experience in similar nature of works (P.O with work completion certificate)	20	3 Years or more = 10 5 years or more = 20
6	Bidder Certification ISO 9001:2015	10	4 Certificates = 10

Minimum Marks should be obtained by the bidder for qualification shall be 60 Marks then only their Financial bids will be opened.

Documents Comprising the Bid:

The bid shall consist of two separate envelopes, Part-A and Part-B.

Part-A should contain:

- i. Annexure- I : Bid Forwarding Letter
- ii. Annexure - II/A : Pre- qualification
- iii. Annexure - II/B : Compliances of Technical Specifications
- iv. Annexure -III : Manufacturer Authorization From
- v. All documents in support of fulfilling the eligibility Criteria
- vi. Entire bid documents duly signed with corrigendum /amendments. if any by the authorized representative of the bidder.
- vii. Sealed envelope with superscription "TECHNICAL BID for Supply, Installation & Commissioning of Digital Smart Classroom based on Interactive Panel"

Part-B should contain:

Criteria for OEM's Technical Eligibility:

s. No.	Evaluation Criteria	Marks (100)	Maximum Score
1	OEM- Certificate of Incorporation in India	15	
2	OEM must have ISO Certificates of 9001, ISO 14001, ISO45001 for manufacturing facility of product (Related certificate copy required).	15	
3	An Escalation Matrix must be provided, detailing contact numbers for service support escalation. Additionally, the bidder/OEM must maintain an active service Centre or deploy a local service executive within the state. All relevant details must be furnished on the OEM's letterhead.	20	
4	OEM must ensure the availability of a dedicated or toll-free service support telephone number, which must be operational and maintained in working condition throughout the contract duration Indian market.	10	
5	Non-Blacklisting Certificate in any PSU, Gov, Semi Gov, Autonomous Body, Educational institute & any organization.	10	
6	Online portal and email facilities for lodging & tracking complaints.	20	
7	Declaration for 2 years Support after warranty period.	10	

The Assistant Registrar (I/c)
NUSRL, Ranchi
At Nagri, P.O. Bukru
Ranchi Pithoria Road, Ranchi - 834006

Tenders received late/ incomplete in any respect are liable for rejection.

NUSRL reserves the right to modify the conditions of the tender, at any time, without assigning any reasons for the same. NUSRL reserves the right to accept/ reject any bid without assigning any reason whatsoever and at any time.

Evaluation of Bid Papers:

The Technical Bid papers of the bidders will be evaluated only if Minimum Marks i.e. 60 obtained by the bidder for technical qualification and the Financial or Price Bid papers will be opened for successfully qualified technical bidders only.

Finalization of Agency:

The agency having the most responsive bid offering lowest price shall be selected for supply and installation of Interactive Flat Panel items.

Terms and Conditions:

- 1) Bid Validity: Bid submitted by bidder shall remain valid for a period of 60 days from the last date of submission of bid.
- 2) Adherence to Terms and Conditions: The bidder who wishes to submit responses to this notice should note that they should abide by all the terms and conditions contained in the tender.
- 3) Single Point of Contact: The Bidder must provide details of Single Point of Contact viz, Name, Designation, Address, Email, Telephone / Mobile No., Fax No. etc. who can discuss and make correspondence with NUSRL, Ranchi regarding the obligations under the contract.
- 4) Issuance of Purchase Order: If the Selection Committee approves, NUSRL, Ranchi will issue the purchase order for supply and installation of Interactive Flat Panel item as per the Scope of work mentioned in the tender document. The successful bidder is expected to complete the delivery, installation and commissioning within a period of 15 days from the date, the purchase order is placed.
- 5) Payment: Prices payable to the bidder include all expenses for supply and installation at NUSRL, GST applicable will be paid extra.
- 6) Delivery and Installation Schedule: The bidder should deliver and install the goods within 15 days from the date of purchase order. The bidder should take responsibility (or safe delivery) of the goods at the destination point NUSRL, Ranchi including transportation up to destination with insurance. The bidder shall arrange the Road permit, or any other document wherever required for transport & delivery of goods at destination point.
- 7) **Warranty & Support:** The warranty shall be on-site, comprehensive for a minimum period of three years from the date of installation.
- 8) Sub-contracting: The contractor shall not assign, sub-contract or sub-let the project to any other person.

- 9) Cancellation of Contract and Compensation: NUSRL, Ranchi reserves the right to cancel the contract under any of the following circumstances.
- a. If the Vendor commits breach of any of the terms and conditions of the contract.
 - b. If the progress regarding the execution of the contract is found to be unsatisfactory.
 - c. No compensation will be paid for cancellation of the contract.
- 10) Amendment to the Bidding Document: NUSRL, Ranchi reserves the right and sole discretion for inclusion of any addendum to the entire bid process. All corrigendum containing amendments to this tender will be posted on the website <https://nusrlranchi.ac.in>. Bidders are advised to periodically check the website for regular updates.
- 11) Resolution of any dispute: In the event of any dispute arises, the decision to resolve the issue will be taken by the Assistant Registrar (I/c) and such decision taken by the Assistant Registrar (I/c) will be final and binding on the bidder.
- 12) Applicable Law: The Court of Jurisdiction shall be Ranchi for all such purposes.
- 13) The order for the supply, installation & commissioning of digital smart classroom based on interactive panel items may be made to bidders other than bidder-L1 based on suitability & negotiated price.

BID FORWARDING LETTER

(On the Letter head of the Bidder)

To
The Assistant Registrar (I/c)
NUSRL
Ranchi - 834006

Sub.: Tender for 'Supply and Installation of Interactive Flat Panel' vide tender no.....

Dear Sir,

With reference to the above tender, I am / we are offering rates for the above work.
I / we hereby confirm and declare that I/we have carefully studied the tender documents
therein and undertake myself / ourselves to abide by the terms and conditions.

Yours faithfully,

(Signature of the Authorized Official with seal)

TECHNICAL BID
/PART-A' Pre- Qualification)

SI No	Description	To be filled by Bidder and attach Relevant document in support of the data
1	Name of the firm	
2	Date of Incorporation: (Copy of Certificate of Incorporation should be submitted)	
3	Address of firm with Tel/ Mob No, Email ID	
4	Name and Designation of Authorized Person with Tel/Mob No./ Email ID to deal with NUSRL, Ranchi.	
5	Demand Draft of Tender Fee of Rs.1,000/- in favour of “The Registrar, NUSRL Ranchi” payable at Ranchi.	
6	Demand Draft of EMD Rs.60,000/- in favour of “The Registrar, NUSRL Ranchi” payable at Ranchi.	
7	The bidder should have experience of supply, installation, integration testing, commissioning, and successful completion of at least one project of Rs. 25 Lacs for smart class or IT Equipment(s) related projects with Government department / PSU / Higher Education Department or any Organization. (Purchase Order and Completion Certificate to be submitted).	
8	Minimum gross turnover of Rs.2.00 Crores in the last 3 (three) audited financial years (FY: 2021-22, 2022-23 & 2023-24)/ minimum 2 crore in each financial year. (Copies of last 3 years audited balance sheet with a CA Certificate with UDIN to be submitted).	
9	The bidder should have positive Net Worth in all the last 3 (three) audited financial years (FY: 2021- 22, 2022-23 & 2023-24). (Copy of CA Certificate and UDIN to be submitted).	
10	Income Tax Returns for the last 3 years (copies of same to be attached)	
11	Valid GST Registration certificate and PAN card (Copies of same to be attached)	
12	Firm should not have been blacklisted or barred by any Dept. of Govt., PSU, Autonomous Bodies (Attach self - declaration on the head of bidder)	
13	Interactive Flat Panel OEM Criteria document	

14	ANNEXURE -1	
15	Duly filled Annexure -II/A and II/B	
16	Annexure – III Manufacturer Authorization Form (MAF) from OEM of Interactive Flat Panel and UPS.	
17	The entire bid documents are duly signed by the bidder with corrigendum/ amendments, if any by the authorized representative of the bidder	

Seal & Signature of the Bidder

(PART- B: Technical Compliance)

Make to be quoted:

Quantity: 10 Interactive panels (Three years warranty)

Parameter		IFP with Inbuilt Camera and Mic (Android 14 EDLA)	Compliance
Basic	Size	86"	Yes/No
	Display scale	16:09	Yes/No
	Maximum resolution	3840x2160(pixels)	Yes/No
	Refreshing Frequency	60Hz	Yes/No
	Brightness	Min.:400nits; Type.:450nits	Yes/No
	Contrast ratio	Type: 1200:1	Yes/No
	Pixel Pitch	0.4296(H)x0.4296(V)	Yes/No
	Viewing angle	H:178°, V:178°	Yes/No
	Response time	Typ.:8ms	Yes/No
	Display Colors	1.07B(10bit)	Yes/No
	Life time	50,000hrs(min.)	Yes/No
	Color Gamut (NTSC)	72%	Yes/No
Android	CPU	Octa Core RK3576 (4* ARM Cortex A72 @2.2 GHz + 4* ARM Cortex A53 @ 2 GHz)	Yes/No
	GPU	MaliG52 MC3	Yes/No
	RAM	8GB	Yes/No
	ROM	128G	Yes/No
	OS	Android 14.0 EDLA	Yes/No
Mainboard Interface	INPUPT	HDMI, DP IN, Type-C USB, OPS, LAN, USB 2.0, USB 3.0, Touch-USB (3.0), MIC IN, SPDIF, RS232 IN	Yes/No
	OUTPUT	HDMI, Audio	Yes/No
Front Interface	Type-C	x1	Yes/No
	USB	x2 (USB3.0)	Yes/No
Inbuilt NFC Card Reader	Standard	ISO/IEC 14443 A / ISO/IEC 14443 B	Yes/No
	Support card type	MIFARE FeliCa	Yes/No
	Read-write distance	<30mm	Yes/No
	Read/write speed	100 To 400 kbps	Yes/No
	Read and write latency	<100ms	Yes/No
Dual WIFI	Main Chipset	MediaTek MT7663BU+Realtek RTL8822BU	Yes/No
	Operating Frequency	2.4GHz/5GHz	Yes/No

	WI-FI Standard	802. 11a/b/g/n/ac	Yes/No
	Bluetooth	2. 1+EDR/4.2/5.0	Yes/No
Inbuilt Camera	Size	48MP	Yes/No
	FOV	DIAGONAL 114.9 °	Yes/No
	Array Size	MJPEG: 3840*2160(30fps) , 1920* 1080(30fps), 1280*720(30fps)	Yes/No
Inbuilt Array Mic	Array quantity	8-mic	Yes/No
	Pick up Area	8m (Angle : 180 °)	Yes/No
	AEC	support	Yes/No
	AGC	support	Yes/No
	Speech enhancement	support	Yes/No
	sensitivity	-35 DBFS@1kHz@94dB	Yes/No
	output signal	USB output	Yes/No
Touch	Sensing Type	Infrared Touch Frame	Yes/No
	Surface Protection	3.2mm Toughened Glass	Yes/No
	Infrared Touch	40 Points	Yes/No
	Touch Accuracy	the middle 90% area ±1mm	Yes/No
	Response Time	≤5ms	Yes/No
	Minimum Touch Object	Single touch ≥1.6 mm, Multiple touch ≥2mm	Yes/No
	Connect Type	USB2.0 Full Speed	Yes/No
	Voltage	DC+5V±5%	Yes/No
	Power Consumption	≤2.5W	Yes/No
	Windows 11/10/8/7, Android	Multiple Touch	Yes/No
Electrical	Power requirements	AC 100 V ~ 240 V, 50/60 Hz	Yes/No
	Maximum Power consumption without OPS	380W	Yes/No
	OPS Power	DC 18V/5A	Yes/No
	Power consumption in standby mode	<0.5W	Yes/No
	Audio Output Power	2x20W/6Ω Speakers	Yes/No
Packaging / Accessories	IN BOX	Remote Control, Touch Pen, Power Cord, USB A-B Cable, HDMI Cable, NFC Cards, User Manual, Installation Documents, Warranty card, Wall Mount kit	Yes/No
Embedded Connected Classroom Software	Embedded Connected Classroom Software	Embedded Connected Classroom Software should have an Interactive Whiteboard with Connected Classroom App.	Yes/No
		OEM of the IFP and Embedded Connected Classroom Software should be the same (Software should not be sourced via some 3rd party). IFP OEM must own the complete IP and Source code of the software. Software must be developed and hosted on server based in India for user's data privacy and security.	Yes/No

		The teachers should be able to type and create their own customized lesson structure along with timelines	Yes/No
		Using the Ask Me Anything tool, the teachers should be able to search for queries related to any topic and the AI should be able to generate Class-wise and Subject-wise results including Images, Videos (YouTube Videos) and Explanation.	Yes/No
		<u>Connected Classroom software for In-class teaching (on Interactive Flat Panel):</u>	Yes/No
		Whiteboard software should support the below:	Yes/No
		- Multiple types of pens, highlighters	Yes/No
		- Insert and import images, videos to the Whiteboard for teaching	Yes/No
		- Text recognition and conversion of handwriting to text	Yes/No
		- Simulations, AI Assistant	Yes/No
		Below tools and simulations should be provided for enhancing the teaching-learning experience:	Yes/No
		- Graph: Demonstrating equations using 2D and 3D visualizations	Yes/No
		- Calculator: Standard and scientific	Yes/No
		- Interactive periodic table: Individual element-level detailed explanation which can be accessed by clicking on each element.	
		- Dictionary: Complete English dictionary	Yes/No
		Instant Quiz: Connected Classroom Software should be able to detect and analyze the content written on the Whiteboard and generate an instant quiz for the topic	Yes/No
		Smart Notes Using the AI based software, teachers should be able to generate summaries for the content taught on the Whiteboard.	Yes/No
		Ad-Free YouTube: YouTube videos should be played within the application, without any ads	Yes/No
		Software should have a Two - Way Live Conferencing Feature with education specific features. Live conferencing feature should also enable recording which gets directly uploaded to cloud.	Yes/No

Pre-Qualification Criteria for OEM		
1	The OEM Should have direct technical support staff in Ranchi for immediate technical support.	Declaration on letter head
2	The OEM Must have valid BIS, UL, CE, FCC, ROHS, ISO 9001, ISO 14001, ISO 45001, ISO 50001, BIS, UL, CE, FCC, ROHS, ISO 9001, ISO 14001, ISO 45001, ISO 50001 Certified Company. (Related certificate copy required).	Certificate to be attached
	OEM should be incorporated in India for more than 3 years preceding the Bid Due Date.	Declaration on letter head
3	Manufacturer authorization: Wherever Authorized Distributors / Dealers are submitting the bid, Manufacturers Authorization Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the tender.	Software Brochure & Demo
4	Only OEMs must submit MII Declaration.	Declaration on letter head
5	The data sheet of the product(s) offered in the bid are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.	Declaration with SLA
6	OEM of the IFP and Embedded Connected Classroom Software should be the same (Software should not be sourced via some 3rd party). IFP OEM must own the complete IP and Source code of the software. Software must be developed and hosted on server based in India for user's data privacy and security.	Declaration on letter head
	Dedicated/ toll free Telephone No. for service support, Escalation Matrix for Service support.	Declaration on letter head
7	OEM for the interactive panel must have supplied and installed 50 + Interactive panel displays into Government/PSU sector/reputed organization in last 3 years. Original documentary proof at the time bid.	Declaration on Letterhead
8	OEM participating in the Bid must declare that the offered interactive panel and educational software belongs to the same OEM (software should not be sourced via some 3rd party) and will not be declared End-of-life within 5 years of installation.	Declaration on Letterhead
9	Technical specifications compliance to be shared on OEM letterhead. If required, the OEM will be asked to demonstrate the features as per the compliance. Any deviation may lead to technical disqualification.	Technical specifications compliance to be shared on OEM letterhead

MAF from OEM in favour of bidder is an essential document else the bid will be rejected.

Place:
Date:

Signature of the Bidder:
Name, Address of the Bidder:
Telephone No:

MANUFACTURER AUTHORIZATION FORM

(On the Letter head of OEM)
To
The Assistant Registrar (I/c)
NUSRL,
Ranchi

Dear Sir,

Sub: Manufacturer Authorization Form for Tender No.....

We..... <OEM Name> having our
registered office at
<OEM Address> are an established and reputed manufacturer of
..... <Product Details>
do hereby authorize M/s. <Name and Address of the
Partner> to offer their quotation and conclude the contract with you against the above
invitation of tender.

We hereby extend our full guarantee and warranty as per the terms and conditions of the
tender for the solution, products/ equipment and services offered against this invitation
for tender by the above firm and will extend technical support and update/ upgrades.

<OEM Name>
<Authorized Signatory>-
Name:
Designation:
Date:
Seal:

Note: This MAF should be on the letterhead of the OEM and should be signed by a
Competent and Authorized Person of OEM.

PRICE BID

(On the Letter head of the Bidder)

To,
The Assistant Registrar
(I/c) NUSRL, Ranchi

Sub.: Submission of Price Bid-towards "Tender for Supply, Installation & commissioning of Digital Smart Classroom based on Interactive Panel •

Tender no. _____

Sl. No	Item Description	Make and Model	Quantity	Amount (in Rs.) Rate to be quoted per unit item (Excluding GST applicable)	GST (%) Shall be quoted separately	Total price per unit (Rs)
	86" Smart Interactive Flat Panel with Inbuilt Camera and Microphone (3 Years Warranty)					
	TOTAL					

Note: All prices are in INR only.

Place:

Date:

Signature of the Bidder

Name. Address of the Bidder:

Telephone No:

Email address, if any