



E-Tender Notice No: RU/RUSA/Equipment/Digital Smart Board (IFP)/All departments/2025-26-1  
Dated:14/08/2025

Tender document for supply and installation of 86 & 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool

Start Downloading E-Tenders	:	14.08.2025; 04:00 PM
Last Date for Downloading E-Tenders	:	28.08.2025; 04:00 PM
Last Date for Receipt Of E-Tenders	:	28.08..2025; 05:00 PM

**Dates of opening of E-tenders**

Technical Bid	:	29.08.2025; 11:00 AM
Financial Bid	:	30.08.2025; 03:00 PM

**REGISTRAR**

# RAYALASEEMA UNIVERSITY :: KURNOOL

## NOTICE INVITING TENDER (Online version)

Sl.No.	Item	Description
1	Department Name	Rayalaseema University, Kurnool
2	FILE/R.O.C Number	RU/RUSA/Equipment/Digital smart board (IFP)/All departments/2025-26-1 Dated:13/08/2025
3	Tender Subject	Tender document for supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool.
4	Tender Type	e-Tender
5	Tender Category	Other
6	EMD Amount (INR)	3% on quoted price
7	EMD payable:	The Registrar, Rayalaseema University, Kurnool
8	Bid Document Fee	Rs.1,000 and payable online or DD to The Registrar, Rayalaseema University, Kurnool.
9	Bid Document Downloading Start Date	14.08.2025, 04:00 PM
10	Bid Document Downloading End Date	28.08.2025; 04:00 PM
11	Last Date & Time for Receipt of Bids	28.08.2025; 05:00 PM
12	Technical Bid Opening Date and Time (Qualification & Eligibility Stage)	29.08.2025; 11:00 AM
13	Price Bid Opening Date and Time (Financial Bid Stage)	30.08.2025; 03:00 PM
14	Place of Tender Opening	Registrar's chamber, Rayalaseema University, Kurnool
15	Tender Inviting / Opening authority	Registrar, Rayalaseema University, Kurnool
16	E-mail id	<a href="mailto:registrarru@gmail.com">registrarru@gmail.com</a>
17	Contact Details / Telephone	9494410216
18	<b><u>Eligibility Criteria:</u></b> The bidder should possess and furnish all requisite documents, registrations etc., The bidder should possess Certificates like: 1. The bidder shall be a manufacturer or OEM authorization may be produced.	

2. Firm registration certificate from Registrar of companies/Societies/MSME.
3. Goods & Service Tax registration.
4. PAN Number of the firm/individual.
5. IT returns of recent 3years.
6. The bidder should have a cumulative turnover of at least Rs.1 crore for the last 3 financial years.
7. The bidder should have executed similar nature of work worth of Rs. 10 lakh and above during last three financial years for any State or Central government institutions (must enclosed at least one work order)
8. The Bidder must submit an undertaking on its letter head that they have not been blacklisted by any State/Government/Central Government/PSU Department in India.
9. The bidder should furnish the Annexure-I providing compliance to the Technical Specification listed along with relevant brochure, certificate, etc. (Compliance Report should be enclosed with duly signed).

Note: - In case of non-submission of certificates, The Registrar, Rayalaseema University reserves the right to take any appropriate action including the cancellation of tender of the respective bidder. In this regard the decision of the Registrar, Rayalaseema University is final and binding on the bidders without any recourse.

**Procedure for Bid Submission:**

1. Bids shall be submitted online.
2. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website <http://www.apecurement.gov.in>.The bidders who are desirous of participating in e-procurement shall submit their technical bids, financial bid as per the standard formats available at the e –market place. The bidders should scan and upload the below mentioned documents and submit all the hardcopies duly attested to the Registrar, Rayalaseema University on or before the schedule date and time of opening the technical bid.
3. Goods & Service Tax registration.
4. Pan Card of the firm/individual.
5. Income Tax paid receipts for the last year of the firm.
6. Firm registration certificate from Registrar of companies/Societies/ MSME.
7. The Bidder must submit an undertaking on its letterhead that they have not been black listed by any State/Government/ Central Government/ PSU Department in India.
8. EMD of 3% on quoted price and should pay online

**Note: -**

- After tendering, all Bidders should submit the attested copies of the uploaded certificates as specified above to the Registrar, Rayalaseema University, Kurnool on or before the scheduled date and time of opening of Technical Bids.
- **Transaction fee on e-Procurement Platform:**All the participating bidders shall pay a transaction fee (non-refundable) as mentioned in the Notice Inviting Tender payable to M/s APTS, Hyderabad and through online. (0.03% of estimate contract

	<p>value + GST).It is mandatory for all the participant bidders from 1stJanuary 2006 to pay a Non-refundable Transaction fee electronically to the Managing Director, A.P.T.S, Hyderabad by the service provider through "Payment Gateway Service on E-Procurement platform".</p> <p>➤ The Bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on eProcurement Platform and the bids not authenticated by Digital certificate of the bidder will not be accepted on the eProcurement platform.</p>		
20	<table border="1"> <tr> <td>General Terms and Conditions:</td> <td>AS PUBLISHED IN THE NOTICE INVITING TENDER.</td> </tr> </table>	General Terms and Conditions:	AS PUBLISHED IN THE NOTICE INVITING TENDER.
General Terms and Conditions:	AS PUBLISHED IN THE NOTICE INVITING TENDER.		

**PROCEDURE FOR BID SUBMISSION ON e-Procurement PLATFORM (e-Tendering):**

1. The bidder shall submit this response through Bid submission to the tender on e-Procurement platform at [www.aeprocurement.gov.in](http://www.aeprocurement.gov.in) by following the procedure given below. The bidder would be required to register on the e-procurement marketplace <http://www.aeprocurement.gov.in> and submit their bids online. Offline bids shall not be entertained by the tender inviting authority for the tenders published in e-procurement platform.
2. The bidders shall submit their eligibility and qualification details, technical bid, financial bid etc., in the online standard formats displayed in e-Procurement web site. The bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/technical bids and other certificate/documents in the e-Procurement web site. The bidder shall sign on the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. The bidder shall attach all the required documents for the specific tender after uploading the same during the bid submission as per the tender notice and bid document.
3. **Hardcopies:**
  - i) Attested copies of all original hard copies of the uploaded scanned copies by successful bidder must be submitted along with tender document to the tender inviting authority before scheduled date and time of the opening of the Technical bid.
  - ii) EMD payment slips should be enclosed
  - iii) The Uploaded documents and the Hard copies should be same.
  - iv) Rayalaseema University, Kurnool shall carry out the technical evaluation solely based on the uploaded certificates/documents in e-Procurement system and open the financial bids of the respective bidders after evaluation of technical bids.
  - v) The successful bidder shall invariably furnish the online transfer slip towards EMD, Certificates/Documents of the uploaded scan copies to the Tender Inviting Authority before entering the agreement, in person, the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. Rayalaseema University will not take any responsibility for any delay in receipt/non-receipt of EMD, Certificates/Documents from the successful bidder after the stipulated time.

**Note:** The bidder is requested to get a confirmed acknowledgement from the Tender Inviting Authority as a proof of hardcopies submission to avoid any discrepancy.

**4. Tender Document:**

- (a) The bidder is requested to download the tender document and read all the terms and conditions mentioned in the tender Document and seek clarification if any from the Tender Inviting Authority. Any offline bid submission clause in the tender document could be neglected.
- (b) The bidder has to keep track of any changes by viewing the Addendum/Corrigendum issued by the Tender Inviting Authority on time-to-time basis in the e-Procurement platform. The Department calling for tenders shall not be responsible for any claims/problems arising out of this.

**5. Bid Submission Acknowledgement:**

- (i) The bidder shall complete all the processes and steps required for Bid submission. The system will generate an acknowledgement with a unique bid submission number after completing all the prescribed steps and processes by the bidder. Users may also note that the bids for which an acknowledgement is not generated by the e-Procurement system are treated as invalid or not saved in the system. Such invalid bids are not made available to the Tender Inviting Authority for processing the bids. The Registrar, Rayalaseema University, Kurnool is not responsible for incomplete bid submission by users.
- (ii) **Tender Conditions for**“Supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (and board) with UPS” for all the academic departments **Rayalaseema University, Kurnool**
- (iii) Online (e-Tender) tenders are invited for Supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool
- (iv) The Registrar, Rayalaseema University, Kurnool, desires to have the tender in two bids i.e., (1) Technical bid and (2) Financial bid. All Tenderers should submit the attested copies of all scanned and uploaded certificates to the Tender Inviting Authority on or before scheduled date and time of opening of the technical bid as mentioned in Tender Document. The financial bids of those tenderers who are technically qualified alone, will be opened on the date and time as mentioned in the Tender Document by The Registrar, Rayalaseema University, Kurnool or any other office authorized by The Registrar, Rayalaseema University, Kurnool. The University may extend the last date by issuing an amendment in which case all rights and obligations rest with the Registrar, Rayalaseema University, Kurnool and the tenderers previously subject to the original deadline will then be subjected to the new deadline. **Submission of Tender Documents on Off Line Will Not Be Considered.**
- v) **Performance Security Details:**
  - a) The successful tenderer will have to deposit the performance security valid for 39 Months in the form of DD / TDR / FDR / Bank Guarantee @03% of the total order value at the earliest from the date of issue of the award letter. No interest will be paid by Rayalaseema University, Kadapa on the deposit.
  - b) Performance Security will be refunded to the supplier, after it duly performs and completes the contract/warranty period in all respects.

- c) Performance Security will be forfeited if the firm fails to perform/abide by any of the terms or conditions of the contract.
- d) In case, the firm fails to execute the order successfully, within specified delivery period, the same goods/items will be procured from open market and the difference of cost, if any, will be recovered from Performance Security or from pending bill(s) of the defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security
- vi) **Corpus Fund:**

As per GO MS No.4 User departments shall collect 0.04% of ECV (estimated contract value) with a cap of Rs.10,000 (Rupees ten thousand only) for all works with ECV upto Rs.50 crores, and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 crores, **from successful bidders** on e-Procurement platform before entering into agreement / issue of purchase orders, towards e-procurement fund in favour of Managing Director, APTS. There shall not be any charge towards e-Procurement fund in case of works, goods and services with ECV less than and upto Rs. 10 lakhs.

**Note: -**

1. The rate quoted should be inclusive of transportation, labor charges, etc. and inclusive of all taxes.
2. Supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool(**Annexures –I&II**).
3. **Delivery:** Delivery and Installation period will be 45 days from the date of signing of the contract. The delivery quoted will be firm, definite, unconditional and on the basis of receipt of materials at destination in good condition without any bearing on the procurement of raw materials or any similar pre requisites. The commencement date and date of delivery will be indicated. The preferred delivery time, which is the essence of this specification, is indicated in the schedule. Final deliveries are however, subject to confirmation at the time of contract. Delay in delivery of materials FADS (Free at destination store) due to non-availability of railway booking non-allotment of wagons and any such reasons will not be considered.
4. Negotiations will be made in case of necessity, with the lowest selected tenderers and in this regard the decision of Registrar, Rayalaseema University, Kurnool shall be final and binding on the suppliers without any recourse.
5. The tender inviting authority i.e., the Registrar reserves the right either to reject any or all tenders without assigning any reason. In this regard the decision of Registrar, Rayalaseema University, Kurnool is final and binding on the tenderer without any recourse. Further, it is to be clearly understood by both the parties that the tender is specifically accepted by the tenderer when the tenderer files the tender before The Registrar, Rayalaseema University, Kurnool. The acceptance or rejection of the tender by The Registrar, or methodology adopted by University in short listing the companies for providing service or supply of material/materials or etc., shall not

become a cause of action or ground to initiate any legal action before any Court or Courts of Law for obtaining any order, Injunction, Direction etc., from the Hon'ble court or Courts to stall the proceeding related to the processing of tender, execution of work and release of payment by Rayalaseema University, Kurnool.

6. The Registrar, Rayalaseema University, Kurnool reserves the right to accept or reject any tender and to cancel the tender process and reject all tenders at any time prior to the award of contract without thereby incurring any liability to the affected tenderer or any obligations to inform the affected tenderers, the grounds of acceptance or rejection.
7. The Registrar, Rayalaseema University, Kurnool reserves the right to levy penalty as decided by the competent authority or withhold payment for any under quality material supplied by the tenderer without prejudice to its other rights. In this regard, the decision of Registrar shall be final.
8. The prices quoted shall be fixed from the date of submission of tender to the date of completion of the contract in all respects. ANY REQUESTS FOR REVISION IN THE RATE OR RATES BY THE SUPPLIER SHALL NOT BE ENTERTAINED DURING THE RATE CONTRACT PERIOD.
9. Penal claims on grounds of the supplier whatsoever like payment of interest on delayed payment of bills etc. shall not be acceptable to Rayalaseema University, Kurnool, or binding on the part of the Rayalaseema University, Kurnool.
10. SUB-CONTRACTING: The contract supply awarded should be executed by the successful Tenderer / bidder only and sub-contract of supply is not permitted.
11. Bids will remain valid for the period of Ninety (90) days from the date of bid opening prescribed by the purchaser.
12. The Supplier who applies for this tender has to furnish the declaration that they have not been blacklisted by any of the organizations / agencies. Any wrong declaration in this regard which comes to the notice at a later date will disqualify them from tendering in future in university and the tenders received shall be automatically rejected.
13. No supplier shall be allowed at any time on any ground what so ever to claim revision or modification in the prices quoted by him, Conditions such as Subject to Availability Supplies will be made as and when supplies are received etc., will not be considered under any circumstances.
14. Any effort by a bidder to influence the purchaser in its decisions wait on bid evaluation, bid comparison, or contract award will result in the rejection of the Bidder's bid.
15. In the event of any legal dispute arising out of the tenders, such dispute would be subject to the jurisdiction of the civil courts at Kurnool District only.

**Additional Tender conditions for Supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool”.**

- a. The agency should have considerable and sufficient experience in“Supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool”
- b. The agency should install the equipment and demonstrate the each and every experiment related to computer laboratory courses along with the equipment supplied.**
- c. The additional equipment may be supplied if required in spite of stated equipment in Annexure I& II for conduction of experiments in the laboratory.**
- d. The agency should provide immediate and attentive service if required.
- e. Prices should be quoted inclusive of all taxes and transportation, labor charges etc.,
- f. Transportation and labor shall be arranged by the agency concerned. The agency shall wholly own the responsibility in the event of any leakages / damages / accident / natural disaster during transportation.
- g. **Penalty:** In case of default by successful bidder, the Registrar, Rayalaseema University, Kurnool has right to impose the penalties that may be deemed fit to recover from the bidder and amount equivalent to that incurred without prejudice to his other rights including the right to cancel the order without pre-notice.
- h. This University will release payment on satisfactory installation and after obtaining necessary certification from the designated authority.
- i. Rayalaseema University, Kurnool holds no responsibility for the delay in release of payment in the event of any audit objection(s).
- j. The technical specifications and configuration must be in accordance to the specifications stated in **AnnexureI**.

**Technical bids will be evaluated first. The financial bids of the successful technical bidders only will be evaluated for finalizing the bidders.**

**REGISTRAR**

**RAYALASEEMA UNIVERSITY, KURNOOL.**

**e- Tender Document to Rayalaseema University, Kurnool.**

Technical Specifications for supply and installation of 86 and 98 inch Touch Interactive Flat Panel display (digital smart board) with UPS for all the academic departments Rayalaseema University, Kurnool

**ANNEXURE – I**

<b>86" Touch Interactive Flat Panel Display- SAMSUNG/NEULINE/SENSES (25 No)</b>		
<b>Parameters</b>	<b>DESCRIPTION</b>	<b>COMPLIANCE (Y/N)</b>
<b>Display</b>		
Active Screen Size ("inch)	86"	
Display Backlight	DLED	
Display Area	1895 × 1066 mm	
Display Ratio	16 : 9	
Resolution	3840*2160 or better	
Display Colors	10 bit or better	
LCD Brightness	400cd/m2 or better	
Contrast Ratio (Typical)	4000:1 or better	
Response Time (Typical)	4ms or better	
Viewing Angle	178°	
Life time (working hours)	>50,000 hours or better	
Display Orientation	Landscape	
Reference Frequency	120Hz	
<b>Speakers</b>		
Speakers	Shout be SEAMLESSLY build-in the display	
Max.Power Output	2x20 Watts or above	
Speaker Position	bottom front side of the display	
Rated Impedance	6Ω	
Freq.Response	250Hz-20KHz SPL -10dB	
Output S.P.L.	80±3dB	
<b>Touch</b>		
Touch Technology Deployment	Touch feature should be seamlessly build-in the display and NO overlay is allowed	
Bonding Technology	Zero Bonding	
Touch Sensor	Advanced IR	
Surface material of touch surface	Anti-Glare+Anti-Fingerprint + Tempered Glass	
Protection	3M antiglare	
Haze	2%~5%	
Touch Screen Writing Tools	Nano Pen (>2mm width) included or Finger	
TOUCH Response time	4ms or better	
Positioning Accuracy	±1mm or better	
Transmission Range	5M	
Transparency	>88% or better	
Surface Hardness	H8 or More than H8	
Glass thickness	4 mm	
HID Support	Must have a provision to connect with any external sources	

Touch Points in Windows	Must have a touch capability of MINIMUM 40 points	
Touch Points in Embedded OS	Must have a touch capability of MINIMUM 10 points	
Writing Tool	Shall use with Nano Pen (>2mm width) included or Finger	
Scan Speed	133Hz or better	
Communication Interface	inbuilt USB-B type	
<b>Ports</b>		
Requirement of Front access ports	For the purpose of ease access the display must have the following ports in the front side	
Minimum Requirement of AV Inputs at front side	1 x USB 2.0 Touch, Type B 1 x HDMI in 2 x USB 3.0, Type A 1 x Type C 1 x Mic In	
Minimum Requirement of AV Inputs at rear side	1 x USB 3.0 Touch, Type B 1 x HDMI in 1 x HDMI in (ARC) 1 x VGA in 1 x VGA Audio In 1 x DP 1 x LAN In (1000Mbps) 1 x LAN Out (1000Mbps)	
Minimum requirement of AV Outputs at rear side	1 x Line Out 1 x S/PDIF Out	
Minimum Requirements for other ports at rear side	1 x USB 3.0, Public Type A 1 x USB 2.0, Android Type A 1 x RS232 Type-C (For camera, USB 2.0)	
<b>Remote Control</b>		
Technology	Infrared	
Battery Type	AAA Cell	
<b>Smart System / On Board System</b>		
Multimedia File Formats Supported	Support all major types of multi-media files	
GUI - Graphic User Interface	The display must have GUI for ease access of resources, functions and shortcuts. This GUI shall be any proprietary OS but must be computable with Android coding.	
Discussion / White Board	Build-in white board ( seamless writing)have different pen colour settings , highlighter , pre-defined shapes, unlimited page settings, pixel eraser / regional eraser , Palm eraser, background & patterns, import settings, infinity canvas , object recognition, Math tools, import & Export options ,Sticky note , Visualizer - camera option to bring papers / objected in to whiteboard in to a live video, undo & redo option , Google drive login , after the presentation the in-built WB have the option to	

	send White annotation via email or save in internal memory or save in cloud or QR code scanner to export all the WB content into image / PDF	
Wireless casting application - Air go Cast	Multi-screen interactive software designed for sharing, wireless display and remote control between mobile devices (such as phones, tablets, laptops, etc.)	
Picture-in-Picture	Possible	
Classroom Share	Includes Vote, Responder, Selector, Message, Manager, Export	
Built in Applications	Aqua mail, Chromium, File Management, White Board, Browser, Calculator, Clock, vote, Visualizer, Memory cleaner, classroom tools, Air go Cast, Office Suite, Picture in Picture, Screen Recorder, Sign-in, Signage	
Engage for Windows	<p>Engage is the perfect solution for interactive classroom that provides various classroom tools. The versatility of Engage gives both teachers and students more engaging lessons and better-quality education, increasing interactivity and collaboration in the day-to-day instruction. Windows-based software.</p> <ul style="list-style-type: none"> <li>• Import PPT file or create the contents directly.</li> <li>• Smart whiteboard and annotation tool.</li> <li>• Object recognition that differentiates between fingers and pens.</li> <li>• Provides various tools such as screenshot tools, text, pen kinds, colored inks, sector tools, infinite canvas, diagram tools, diverse backgrounds, and record function for teachers and students to enrich the content of the course.</li> <li>• Easily save contents as image or PDF file, and even wirelessly transfer these courses out to other devices via QR code.</li> </ul>	
Inbuilt AI Canvas Software	<p>Canvas, India's first GPT based white boarding software with functionality of AI.</p> <ol style="list-style-type: none"> <li>1. Handwriting recognition of all content like Mathematical, chemical equations and any kind of question which can be easily answered with the help of AI.</li> <li>2. AI function also supports over 194 international languages with more than 51 vernacular languages like Hindi. Tamil. Telugu. Marathi, Punjabi, Gujarati, Bengali etc.</li> <li>3. Simulation Video: A repository of over 3000 videos, 1000 simulations, 20K 3D models in a variety of subjects like Chemistry, Biology, Mathematics, Chemistry etc.</li> <li>4. Powerful White boarding Tools like shape</li> </ol>	

	<p>maker, flowchart maker, Infinity canvas.</p> <p>5. YouTube and Google Classrooms integration.</p> <p>6. BYOC: Bring your own Content--- Teachers can upload their own content in the library and use the immersive features of the product.</p>	
Other features	The on-board system supports.... Annotation, saving and send email of annotation files and selecting the inputs and changing the volume, Scheduling function for meeting room schedules, Build in Wi-Fi(2.4G/5G) and so on	
File Commander	<p>Helps to easily open your USB drive and access your documents / files.</p> <p><b>Additional features in File commander:</b>  <b>Add Cloud:</b> Cloud Based file storage services are available. User can directly download their documents or files and access during presentation.</p>	
App store	Apk Pure - user can download education / corporate related applications (3rd Party application -install manually)	
Email support	Pre-loaded Aqua mail - you can easily email your whiteboard content to anyone	
Customized GUI	User can easily customize their own background and logo's	
Multimedia File Formats Supported	Support all major types of multi-media files	
Object Regonisation	<p>This product supports object recognition and produces different effects according to the diameter and size of the input objects.</p> <ul style="list-style-type: none"> <li>● Fist/palm: identified as an eraser (100 pt).</li> <li>● Fine Pen (&gt;2mm): suggested to use while writing.</li> <li>● Thick Pen (≥ 8 mm)/ finger: suggested to use when you want to highlight</li> </ul>	
Bluetooth	Bluetooth V 5.2 is available in Android	
OTA Firmware Management	Remotely manage firmware and software updates with no user intervention	
Smart Eye production	Smart Eye Protect keep your eye vision safe from IFPD's light	
Blue light filter	Blue light contributes to digital eye strain; IFPD's glasses that block blue light may increase comfort for users	
Wifi Module	Built-in Wi-Fi 6 module, with a frequency range of 2.4/5 GHz	
CPU	MT A73 x 4 or higher	
GPU	Quad-core Mali-G52 or higher	
RAM	8GB DDR4 or higher	
ROM	64GB build in or higher	

Android Version	14 or higher	
Android resolution	4K	
<b>OPS Specification</b>		
Processor	Intel Core i5-12 <sup>th</sup> Gen Processor	
Memory	8GB DDR4 Ram	
Storage	512GB SSD	
IO Ports	1 x AUDIO In / Out, 2 x USB 2.0, 2 x USB 3.0, 1 x USB Type-C	
Network	1 x LAN, 1 x M.2 2230 For WIFI 802.11ac Dual Band 2.4GHz & 5.0GHz	
Communication	Inbuilt Wi-Fi and Bluetooth 4.2	
Security	Trusted Platform Module 2.0	
Operating System	Windows 11 Professional preloaded from oem	
<b>Camera Module</b>		
Camera Resolution	4k	
Field of View	120° FOV Lenses	
Resolution	3840x2160 30fps	
Zoom	3.75x Digital Zoom	
Noise Reduction	2D/3D Video noise Reduction	
Connection Type	USB-C	
Auto Framing	Auto	
Microphone	2 Electret Microphones	
Pick-up Range	3m	
<b>Electricity</b>		
Working Voltage	AC 100 - 240V 6.5 A 50/60Hz	
Power Consumption	Maximum ≤500W & Standby Mode <0.5W	
<b>Transportation/Storage</b>		
Storage Temperature/Humidity	-20~60°C 0~90%RH (non-condensing)	
Working Temperature/Humidity	0~40°C 20~80%RH (non-condensing)	
Mounting Capabilities	Display must have facility to mount on floor stand or wall brackets	
<b>System Safety</b>		
Self-shutdown	Must self-shutdown during abnormal temperature	
<b>Wall Mount Kit</b>		
Suitable wall mount kit with accessories	Equipment has to be supplied with suitable wall mount kit and accessories	
Installation	Horizontal installation	
<b>Mandatory Requirements</b>		
Local Office for Bidder	The Bidder must have their office within 230km surrounding	
Proof of document	Any telephone bill, taxi payment receipts and any such documentary proof	
Manufacturer	The Manufacturer must have office in India and proof the same shall be furnished	
Manufacturer's authorization	The bidder must submit the oem authorization certification specific to this bid	

<b>98" Touch Interactive Flat Panel Display- SAMSUNG/NEULINE/SENSES ( 2Nos)</b>		
<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>COMPLIANCE (Y/N)</b>
<b>Display</b>		
Active Screen Size ("inch)	98"	
Display Backlight	DLED	
Display Area	2158 x 1214 mm	
Display Ratio	16 : 9	
Resolution	3840*2160 or better	
Display Colors	10 bit or better	
LCD Brightness	>550cd/m2 or better	
Contrast Ratio (Typical)	15000:1 or better	
Response Time (Typical)	4ms or better	
Viewing Angle	178°	
Life time (working hours)	>50,000 hours or better	
Display Orientation	Landscape	
Reference Frequency	120Hz	
<b>Speakers</b>		
Speakers	Shout be SEAMLESSLY build-in the display	
Max.Power Output	2x20 Watts or above	
Speaker Position	bottom front side of the display	
Rated Impedance	6Ω	
Freq.Response	250Hz-20KHz SPL -10dB	
Output S.P.L.	90±3dB	
<b>Touch</b>		
Touch Technology Deployment	Touch feature should be seamlessly build-in the display and NO overlay is allowed	
Touch Sensor	Advanced IR	
Surface material of touch surface	Anti-Glare+Anti-Fingerprint + Antimicrobial Tempered Glass	
Protection	3M antiglare	
Haze	2%~5%	
Touch Screen Writing Tools	Nano Pen (>2mm width) included or Finger	
TOUCH Response time	4ms or better	
Positioning Accuracy	±1mm or better	
Transmission Range	5M	
Transparency	>88% or better	
Surface Hardness	≥8H or More than 8H	
Glass thickness	4 mm	
HID Support	Must have a provision to connect with any external sources	
Touch Points	Must have a touch capability of MINIMUM 50 points	
Writing Tool	Shall use with Nano Pen (>2mm width) included or Finger	
Scan Speed	133Hz or better	
Communication Interface	inbuilt USB-B type	

<b>Ports</b>		
Requirement of Front access ports	For the purpose of ease access the display must have the following ports in the front side	
Minimum Requirement of AV Inputs at front side	USB Type-C (PD 65W) x1 HDMI IN 2.0 (4K@60Hz) x1 USB Type-B (Touch) x1 USB 3.0 Type-A x2 Microphone In x1	
Minimum Requirement of AV Inputs at rear side	HDMI IN 2.0 x2 DisplayPort 1.2 x1 USB Type-B 3.0 (Touch) x3 USB 3.0 Type-C (no PD) x1	
Minimum requirement of AV Outputs at rear side	SPDIF out x1 Audio Line out x1 HDMI OUT 2.0 x1	
Minimum Requirements for other ports at rear side	WIFI module slot (Wi-Fi module is standard) RS232 x1 RJ45 (Gigabit) *2 OPS Slot x1 USB 3.0 Type-A x2 USB 3.0 Type-A to Android x1	
<b>Remote Control</b>		
Technology	Infrared	
Battery Type	AAA Cell	
<b>Smart System / On Board System</b>		
Multimedia File Formats Supported	Support all major types of multi-media files	
GUI - Graphic User Interface	The display must have GUI for ease access of resources, functions and shortcuts. This GUI shall be any proprietary OS but must be computable with Android coding.	
Discussion / White Board	Build-in white board ( seamless writing)have WB Split option ,in-built Google search / web search option and play YouTube videos, different pen color settings , highlighter , pre-defined shapes, unlimited page settings, pixel eraser / regional eraser , Palm eraser, background & patterns, import settings, infinity canvas , object recognition,Math tools, import & Export options ,Sticky note , Visualizer - camera option to bring papers / objected in to whiteboard in to a live video, undo & redo option , Google drive login , after the presentation the inbuilt WB have the option to send White annotation via email or save in internal memory or save in cloud or QR code scanner to export all the WB content into image / PDF	

Cast	<p>A wireless presentation software comes with inbuilt for inroom presentation</p> <p>Maximum connectivity of BYOD devices - 4 / 6 users ( Android 4 user / Win 6 user)</p> <p><b>Control</b> - The setup should be in such a way that the presenter should have control of the GUI of this Remote Interactive Presentation Kit from the Touch Interactive Flat Panel Display</p> <p><b>Display capability</b> - Equipment should have capability to display 4 /6 sources at a time system Supported - Win/Mac/ios/Android</p>	
Display Management Plus	<p>A remote display management solution Centrally manage your interactive displays in any location through a secure and dedicated web portal. Easily manage and deploy apps, configure display settings, use the digital signage features or broadcast messages to all displays.</p>	
Broadcast	<p>SHARE CONTENT TO AUDIENCES OF ANY SIZE HASSLE-FREE BROADCASTING Joining the broadcast is simple:</p> <p>Access the Broadcast webpage and Share your screen in real-time from your display to any participant connected. Easily invite up to 200 participants to connect their own device from the meeting room, classroom, lecture theatre or any other place in the world with a network connection.</p>	
Classroom Tools	<p>The Classroom Tools widget is a sticky overlay, perfect for classroom management. Cut down the number of devices teachers need to use throughout the day with this widget.</p> <ol style="list-style-type: none"> <li>1.Instructions: alert the students on how they should be completing their work (in groups, with a neighbour, or alone in silence) using image cues</li> <li>2.Traffic light: a simulated traffic light, manually switch between colours</li> <li>3.Dice: digital die or dice, perfect math manipulative for a quick demonstration</li> <li>4.Timer: our #1 requested tool, use it for tests and classroom activities</li> <li>5.Stopwatch: track and clock laps</li> <li>6.Calendar: easy access to a simple calendar</li> <li>7.Zoom in: emphasize something on the screen with the zoom-in option</li> <li>8.Spotlight: draw attention to a single point on the screen while blocking out the rest</li> <li>9.Curtain: add a special effect by unveiling the screen with curtains that open from the middle</li> </ol>	

Engage	<p>Engage is the perfect solution for interactive classroom that provides various classroom tools. The versatility of Engage gives both teachers and students more engaging lessons and better-quality education, increasing interactivity and collaboration in the day-to-day instruction. Windows-based software.</p> <ul style="list-style-type: none"> <li>• Import PPT file or create the contents directly.</li> <li>• Smart whiteboard and annotation tool.</li> <li>• Object recognition that differentiates between fingers and pens.</li> <li>• Provides various tools such as screenshot tools, text, pen kinds, coloured inks, sector tools, infinite canvas, diagram tools, diverse backgrounds, and record function for teachers and students to enrich the content of the course.</li> <li>• Easily save contents as image or PDF file, and even wirelessly transfer these courses out to other devices via QR code.</li> </ul>	
Inbuilt AI Canvas Software	<p>Canvas, India's first GPT based white boarding software with functionality of AI.</p> <ol style="list-style-type: none"> <li>1. Handwriting recognition of all content like Mathematical, chemical equations and any kind of question which can be easily answered with the help of AI.</li> <li>2. AI function also supports over 194 international languages with more than 51 vernacular languages like Hindi. Tamil. Telugu. Marathi, Punjabi, Gujarati, Bengali etc.</li> <li>3. Simulation Video: A repository of over 3000 videos, 1000 simulations, 20K 3D models in a variety of subjects like Chemistry, Biology, Mathematics, Chemistry etc.</li> <li>4. Powerful White boarding Tools like shape maker, flowchart maker, Infinity canvas.</li> <li>5. YouTube and Google Classrooms integration.</li> <li>6. BYOC: Bring your own Content--- Teachers can upload their own content in the library and use the immersive features of the product. and more.....</li> </ol>	
Other features	<p>The on-board system supports.... Annotation, saving and send email of annotation files and selecting the inputs and changing the volume, Scheduling function for meeting room schedules, build in Wi-Fi 6 certified (2.4G/5G) and so on</p>	

File Commander	<p>Helps to easily open your USB drive and access your documents / files.</p> <p><b>Additional features in File commander:</b></p> <p><b>Add Cloud:</b> Cloud Based file storage services are available. User can directly download their documents or files and access during presentation.</p> <p><b>FTP:</b> File Transfer Protocol (FTP) is the commonly used protocol for exchanging files over the Internet</p> <p><b>Local Area Network:</b> A local area network (LAN) is a group of computers and associated devices that share a common communications line or wireless link to a server.</p>	
Google Play store	Available	
App store	User can download multiple applications from built-in app store	
Email support	Pre-loaded Aqua mail - you can easily email your whiteboard content to anyone	
Business calendar	A pre-loaded business calendar is available you can set schedules and synchronize with Google calendar for meeting room schedules	
Customized GUI	User can easily customize their own background and logo's	
Multimedia File Formats Supported	Support all major types of multi-media files	
Object Regonisation	<p>This product supports object recognition and produces different effects according to the diameter and size of the input objects.</p> <ul style="list-style-type: none"> <li>● Fist/palm: identified as an eraser (100 pt).</li> <li>● Fine Pen (&gt;2mm): suggested to use while writing.</li> <li>● Thick Pen (≥ 8 mm)/ finger: suggested to use when you want to highlight</li> </ul>	
User Profile settings	User can create their own profile (5 User, 1 Admin & 1 guest)	
Bluetooth	Bluetooth V 5.2 is available in Android	
OTA Firmware Management	Remotely manage firmware and software updates with no user intervention	
Smart Eye production	Smart Eye Protect keep your eye vision safe from IFPD's light	
Blue light filter	Blue light contributes to digital eye strain; IFPD's glasses that block blue light may increase comfort for users	
Palm Rejection	Palm Rejection feature is enabled	
TUV Rhineland Certified (Flicker Free)	Yes	
Wi-Fi Module	Built-in Wi-Fi 6 module, with a frequency range of 2.4/5 GHz	
Feature	Google EDLA Certified	
Chipset	Amlogic 311D2 or higher	

CPU	A73*4 + A53*4 (4 Core + 4 Core)	
GPU	G52*8 (8 Core)	
RAM	8GB DDR4 or higher	
ROM	64GB build in or higher	
External Memory	TF card slot is available that support max of 256 GB or higher	
Android Version	13 or higher	
Android resolution	4K	
<b>OPS Specification</b>		
Processor	Intel Core i5-12 <sup>th</sup> Gen Processor	
Memory	8GB DDR4 Ram	
Storage	512GB SSD	
IO Ports	1 x AUDIO In / Out, 2 x USB 2.0, 2 x USB 3.0, 1 x USB Type-C	
Network	1 x LAN, 1 x M.2 2230 For WIFI 802.11ac Dual Band 2.4GHz & 5.0GHz	
Communication	Inbuilt Wi-Fi and Bluetooth 4.2	
Security	Trusted Platform Module 2.0	
Operating System	Windows 11 Professional preloaded from oem	
<b>Camera Module</b>		
Camera Resolution	4K	
Field of View	120° FOV Lenses	
Resolution	3840x2160 30fps	
Zoom	3.75x Digital Zoom	
Noise Reduction	2D/3D Video noise Reduction	
Connection Type	USB-C	
Auto Framing	Auto	
Microphone	2 Electret Microphones	
Pick-up Range	3m	
<b>System Safety</b>		
Self-shutdown	Must self-shutdown during abnormal temperature	
<b>Wall Mount Kit</b>		
Suitable wall mount kit with accessories	Equipment has to be supplied with suitable wall mount kit and accessories	
Installation	Horizontal installation by Vendor	
<b>Mandatory Requirements</b>		
Local Office for Bidder	The Bidder must have their office within 230km surrounding	
Proof of document	Any telephone bill, taxi payment receipts and any such documentary proof	
Manufacturer	The Manufacturer must have office in India and proof the same shall be furnished	
Manufacturer's authorization	The bidder must submit the Oem authorization certification specific to this bid	

<b>1000VA DIGITAL LINE INTERACTIVE UPS with 10 Minutes Backup- APC/Numeric/Eaton</b>			
Parameter	Description		COMPLIANCE (Y/N)
Capacity	VA/W	1000VA/600W	
Input	Voltage Range	140-300 VAC	
	Frequency	45-65Hz (Auto sensing)	
Output	Voltage	230 VAC (190-253 VAC)	
	Voltage regulation (Batt. mode)	230 VAC +/- 10%	
	Frequency regulation (Batt. mode)	50 +/-1 Hz	
	Waveform	Quasi sine wave	
Battery	Battery type and number	12 V / 9 Ah x 2 pcs	
	Back up time (1 PC load)	30 mins	
	Recharge time	4-8 hours to 90% after complete discharge	
Transfer time	Typical	4-8 ms, max 10 ms	
Indicator	AC mode	Green light	
	Back up mode	Yellow flashing	
	Fault	Red light	
Audible alarm	Back up mode	Sounds every 10 seconds	
	Low battery	Sounds every second	
	Overload	Sounds every 0.5 seconds	
	Fault	Continuous sound	
Protection	Full protection	Discharge/Over charge/Overload protection	
Environment	Operating environment	0-40°C, 0-90% relative humidity (non-condensing)	
	Noise level	Less than 40 dB	
Warranty		Two years onsite warranty for both UPS and Battery for all manufacturing defects	

**RAYALASEEMA UNIVERSITY, KURNOOL**  
**e-Tender Document to Rayalaseema University, Kurnool**

**ANNEXURE- II**

**Eligibility Criteria**

1	Firm registration certificate from Registrar of companies /Societies/MSME	Mandatory
2	Goods & Service Tax registration	Mandatory
3	PAN Number of the firm / individual	Mandatory
4	IT returns for the last THREE (3) financial years	Mandatory
5	Manufacturer / OEM Authorization Letter needs to be submitted for this specific tender and also authorizing the bidder to submit the bid for tendering which is deemed as an agreement in between the bidder and OEM for the support and spares till the warrant period.	Mandatory
6	The bidder should furnish the Annexure-Iproviding compliance to the Technical Specification listed along with relevant brochure, certificate etc., (Compliance Report Should be enclosed with duly signed)	Mandatory
7	The bidder should submit/give Undertaking in compliance with GFR Rule 144(xi) as per the Annexure-IV of this tender document.	Mandatory
8	The bidder should have a cumulative turnover of at least Rs.1 crore for the last 3 financial years.	Mandatory
9	The bidder should have executed similar nature of work worth of Rs. 10 lakh and above during last three financial years for any State or Central government institutions (must enclosed at least one work order)	Mandatory
10	The bidder should submit/give declaration stating that they are not debarred / blacklisted by any State Government, Central Government & State Govt. Undertakings / enterprises / Organizations and by any other Quasi Government Bodies / Organizations in India for non-satisfactory performance, corrupt & Fraudulent or any other unethical business practices during past 5 financial years.	Mandatory

**Signature of the bidder with full address,**

**Contact Number(s) and Mail ID**  
**(To be signed by the authorized signatory)**

**RAYALASEEMA UNIVERSITY, KURNOOL**  
**e-Tender Document to Rayalaseema University, Kurnool**

**ANNEXURE– III**  
**FINANCIAL BID**

**Name of the Bidder / Firm :**

**GST Number :**

<b>S.No.</b>	<b>Description of Item</b>	<b>Unit price</b>	<b>Quantity</b>	<b>Amount</b>
1	Supply and installation of 86 inch Touch Interactive Flat Panel display (digital smart board) along with UPS for all the academic departments Rayalaseema University, Kurnool		23	

<b>S.No.</b>	<b>Description of Item</b>	<b>Unit price</b>	<b>Quantity</b>	<b>Amount</b>
2	Supply and installation of 98 inch Touch Interactive Flat Panel display (digital smart board) along with UP for all the academic departments Rayalaseema University, Kurnool		02	

- Prices inclusive of all taxes should be quoted.

**Signature of the bidder with full address, Contact Number(s) and Mail ID**  
(To be signed by the authorized signatory)

**ANNEXURE-IV**  
**Undertaking in compliance with GFR Rule144(xi)**

To  
The Registrar  
Rayalaseema University  
Kurnool.

Date;

Dear Sir,

Sub: Tender for

Ref: Tender Reference

I/We, < Bidder / OEM Name> have read the clause regarding restrictions on procurement from a Bidder/ OEM of a Country which shares a land border with India.

I/We hereby certify that I/We, <OEM/Bidder Name>is not from any such country or, if from such a Country, has been registered with the following Competent Authority:

1. Details of competent authority:
2. Registration Certificate Ref.No.:
3. Products for which registered: (registration should be valid for the offered product)

I/We hereby certify that I/We in the event of becoming a successful bidder shall not sub-contract works to any Contractor from a Country which shares a land border with India unless such Contractor is registered with the Competent Authority, as per GFR rule 144(xi).

I/We hereby certify that I/We fulfil all requirements in this regard and eligible to be considered

For <OEM/Bidd>

Authorized signatory:  
Name of the authorized Person:  
Designation:  
Name of Bidder:  
Stamp of Bidder:

NOTE:

1. The letter should be submitted on the Letter head of the Bidder / OEM and should be signed by the Authorised signatory.
2. Any deviation would lead to summary rejection of bids.

**E-TENDER LETTER**

Date:

To

The Registrar  
Rayalaseema University, Kurnool.

Ref:	Your tender Notice No.....Dated.....
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I/we have read the contents of the terms and conditions mentioned in your tender schedule and its enclosures and agree to abide by the same.

I/We hereby offer to supply the articles prescribed in the schedule (or such portion thereof as you may specify on the acceptance of tender) at the price given.

I/We agree to hold this offer open for a period of ninety days (90) from the date of acceptance of tender and shall be bound by communication of acceptance dispatched within a period of 15 days from the date of opening of tenders.

I/We have also examined the requisite specifications of the material to be supplied and my/our offer is to supply the required material in accordance with the requisite specifications.

I/We have carefully considered all terms and conditions sated in the tender documents and particulars regarding settlement of disputes and we have signed the same in token of consciously accepting the same and do hereby state that we accept them without any reservations and accordingly.

I/We quote the rate inclusive of all taxes,duties, transportation,insuranceetc.

The articles will be ready for delivery within ..... days from the date of receipt of firm orders.

Yours faithfully

(Signature and stamp of the tenderer, State legal status,  
Whether Prop Partner, Registered firm,Company etc.)

**DECLARATION**

1. I, \_\_\_\_\_ Son/Daughter/Wife of Sri \_\_\_\_\_ Proprietor / Director / Authorized Signatory of the Service Provider, mentioned above, am competent to sign this declaration and execute this tender document.
2. I have carefully read and understood all the terms and conditions of the tender and undertake to abide by them
3. I hereby declare that the firm has not been blacklisted by any department /institution in the State Government/Central Government due to any reason
4. I hereby declare that the firm was not disqualified for any wrong declaration.
5. The information/documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I/We am/are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law

Signature of Authorized Person

Date:

Full Name:

Place:

Seal: