

# **HIGH COURT OF CHHATTISGARH, BILASPUR**

## **Tender Notice**

No.-14460/CPC/2025

Bilaspur, dated 28/07/2025



### **Bid Document for**

Purchasing/Supply/Testing and Installation of following Sub-Component(s) of the Component “Digital Component for SJA” for the use in the Chhattisgarh State Judicial Academy, Bilaspur.

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High Court of Chhattisgarh, Bilaspur 495220  
Phone No. - 07752-241027  
email- [highcourt.cg@nic.in](mailto:highcourt.cg@nic.in), [cpc-cg@aij.gov.in](mailto:cpc-cg@aij.gov.in)

**HIGH COURT OF CHHATTISGARH, BILASPUR**

**Tender Notice**

No. 14460 /CPC/2025

Bilaspur, dated 28 /07/2025

Sealed estimates/quotations are invited from intending firms possessing valid GST and PAN numbers for Purchasing/Supply/Testing and Installation of following Sub-Component(s) of the Component "Digital Component for SJA" for the use in the Chhattisgarh State Judicial Academy, Bilaspur:-

Sl. No.	Component	Sub-component	Name of the Article(s)/ Services	Required Qty.
1.	Digital Component for SJA	Interactive Pannel Board	Interactive Pannel Board 85 inch with mic system with accessories	1
			Interactive Pannel Board 103 inch with mic system with accessories	1
			Interactive Pannel Board 75 inch (without mic system) with accessories	2

As per the Minimum Technical Specification attached herewith at Annex-"A")

**Terms and Conditions:-**

- a) The bidder must submit a written undertaking to provide onsite warranty for the article, as provided by OEM/bidder for the period specified in the Technical Specifications part of this Tender Notice. Additionally, the bidder must submit an undertaking declaring that they are not blacklisted by any authority etc.
- b) The bidder shall submit 10% of the quoted value (rounded off) as Earnest Money Deposit (EMD), in the name of the *Registrar General, High Court of Chhattisgarh, Bilaspur*, at the time of submitting the quotation.
- The EMD of the successful bidder will be returned after the completion of the warranty period plus six months.
  - The EMD of unsuccessful bidders will be returned as per the provisions of the Chhattisgarh Store Purchase Rules, 2002.
  - Bids submitted without EMD will not be considered.
- b.1) In case the successful bidder:
- i. Fails or declines to accept the Purchase Order, or
  - ii. Fails to deliver any or all of the services within the time period specified in the Purchase Order or any extension thereof granted by the High Court of Chhattisgarh, or
  - iii. Fails to fulfill any other obligations related to the supply, testing, or installation under the contract,
- the entire EMD submitted by the successful bidder shall be forfeited, and their empanelment may be cancelled.
- c) The EMD will be returned to the successful bidder upon submission of a Performance Bank Guarantee (PBG) amounting to 10% of the value of the first order.
- PBG is applicable only when the order value exceeds ₹10,00,000/-.



- d) The PBG will be returned six (06) months after the completion of the warranty period.
- If the PBG is not applicable (i.e., when the order value is ₹10,00,000/- or less), the EMD submitted by the successful bidder will be returned six (06) months after the warranty period ends.
- e) The vendor/OEM must have an established office or service center in at the Chhattisgarh State. The bidder must submit the name of the office/proprietor along with email ID and contact details with the tender documents.
- f) The successful bidder has to ensure that adequate number of dedicated technical services personnel/ engineers are designated/ deployed for attending to the Service Request in a time bound manner and for ensuring timely servicing/ rectification of defects during warranty period as mentioned in the Technical Specification of the article.
- g) The bidder must submit an Escalation Matrix (Bidder/OEM) and ensure timely servicing or rectification of defects during the warranty period.
- Upon notification of any defect or service requirement during the warranty period, the bidder must complete the necessary service or rectification within 48 hours, extendable up to 5 days in exceptional cases.
  - Failure to do so will result in a penalty of 0.5% of the unit price of the product, deducted from the PBG/EMD for each week of delay.
  - The cumulative penalty shall not exceed 10% of the total contract value, beyond which the Buyer reserves the right to seek service/rectification from alternate sources at the bidder's risk and cost, in addition to forfeiture of the PBG.
- h) The firm shall submit the rates of only for good quality heavy-duty use products, which are available with the bidders.
- i) Bidders must only quote products or parts (required during service delivery) that are not obsolete in the market and have a minimum residual market life of five (05) years. The offered product should not be declared end-of-life by the OEM before this period.
- j) The unit price of the article must include all applicable charges such as packing, forwarding, freight, insurance, installation, configuration, commissioning, warranty, and comprehensive maintenance for the warranty period or any other charges in the following format:-

**\*Details of Price of articles:-**

Sl. No.	Name of the article	Unit Price of Item (In Rs.)	Required Quantity of articles	Total price of item (In Rs.)	GST (In Rs.)	Total (In Rs.)
(A)	(B)	(C)	(D)	(E=C*D)	F	(G=E+F)
01.	Interactive Pannel Board 85 inch with mic system		1			
02.	Interactive Pannel Board 103 inch with mic system		1			
03.	Interactive Pannel Board 75 inch (without mic system)		2			
04.	Camera (Primary)		4			
05.	Camera (Secondary)		4			
06.	Camera Switcher		4			
07.	Wireless Collar and Handheld Microphone System		2			





08.	Amplifier + Wall Mount Speaker + Mic		2 Set			
09.	Digital Signal Processor (DSP)		2			
10.	HDMI Extender		4			
11.	HDMI Distribution Amplifier		4			
12.	High-End PC with Recording & Steaming Software, Cables & Connectors		4			

- k) The required quantity of the aforementioned articles may be increased or decreased, depending on the actual requirements.
- l) The bidder must submit the original installation report along with the bill/invoice for processing the payment.
- m) Preference will be given to bidders offering higher configurations at the lowest cost.
- n) Bidders may be requested to demonstrate the quoted product before the issuance of the Purchase Order, if deemed necessary.
- o) A Technical Compliance Report along with a product Data Sheet (if available any) of the quoted product sheet is mandatory for evaluation of Technical Specification of the article. The bidder must submit the Technical Compliance Report strictly as per the Technical Specifications attached to this Tender Notice.
- p) The bidder must submit a Turnover Certificate for any of the three financial years among 2024–25, 2023–24, 2022–23, and 2021–22.
- q) The bidder must submit an undertaking to supply only original and genuine articles/parts. Refurbished or used items are strictly prohibited.
- r) The bidder must provide proof of experience (minimum 3 years) in supplying similar products, along with past performance records.
- s) The successful bidder shall deliver the articles to the designated location within 60 days from the issuance of the Purchase Order (extendable by the Hon'ble Committee for Computerization, if required).

In case of delay, a penalty of 0.5% of the cost of the undelivered items will be deducted per week, for up to a maximum of 4 weeks. After that, the matter may be placed before the Hon'ble Committee for Computerization, Weeding, and Digitization of Records of the High Court and District Courts for appropriate action.

- t) Any representation or objection regarding this Tender Notice will be placed before the Hon'ble Committee for Computerization, Weeding, and Digitization of Records of the High Court and District Courts. The decision of the Committee shall be final and binding.
- u) The bidder must submit an ink-signed and sealed OEM Authorization Certificate as per the attached format. In case of a digitally signed certificate, it will be subject to verification from the authorized signatory of the OEM.
- v) After issuance of the Purchase Order, if the vendor fails to supply the articles to the designated location within the stipulated time, the matter will be placed before the Hon'ble Committee for Computerization, Weeding, and Digitization of Records of the High Court and District Courts for consideration and suitable action, which may include Liquidated Damages or blacklisting of the vendor.
- w) The Registry of the High Court of Chhattisgarh reserves the right to cancel the tender at any time without assigning any reason.



x) **Tender Clause Regarding Restrictions on Procurement from Bidders of Countries Sharing a Land Border with India:**

- i. Any bidder from a country that shares a land border with India will be eligible to bid only if registered with the Competent Authority (i.e., the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)).
- ii) Bidder may refer the Govt. Notification in the below links for details and updates: <https://doe.gov.in/procurement-policy-divisions> (Rule 144(xi) of the General Financial Rules, 2017).
- iii) Bidders are requested to submit a Self-Declaration Certificate in the format attached as **Annexure – “I”**.

y) The bidder shall submit the tender documents in two separate envelopes:

- **Envelope A** – Technical Documents and EMD, as per the checklist (Annexure “B”)
- **Envelope B** – Financial Documents (Price details of the articles as per format under point j)

Both envelopes should be sealed and placed inside a third envelope clearly mentioning the Tender Notice details as per **Annexure “C”**.

**Note:** Submission of all certification documents is **mandatory**.

**Submission Details**

Tender documents (both Technical and Financial) must be submitted to the **Registrar General, High Court of Chhattisgarh, Bilaspur**, either in person, through an authorized agent, or by post, **on or before 04:30 PM of 29 / 08 /2025**. The bids will be opened on the **next working day, i.e., 30 / 08 /2025 after 12:00 PM**. **Estimates/quotations received via e-mail or after the specified date and time will not be considered**. The Registrar General reserves the right to reject any or all estimates/quotations without assigning any reason.

  
29.7.25

**Maneesh Kumar Thakur**

 Registrar General

**Interactive Display(85) Specification:****1. General Requirements:**

The supplied display shall be a high-resolution, interactive, and robust unit designed for superior visual clarity, user engagement, and reliable operation in a professional setting.

**2. Display Specifications:**

- Screen Size: 85 inches.
- Panel Technology: IPS / LED.
- Resolution: 3840x2160 (4K).
- Aspect Ratio: 16:9.
- Brightness: 400 nits.
- Contrast Ratio: 1200:01:00.
- Viewing Angle: 178° (Horizontal) x 178° (Vertical).
- Refresh Rate: 60Hz.
- Response Time: 8 ms (Gray to Gray - G to G).

**3. Interactive (Touch) Features:**

- Touch Screen: Yes, with a minimum of 20 points of touch.
- Surface Protection: Tempered Anti-glare Glass.

**4. Integrated Computing & Storage:**

- Built-in Storage: 64GB or higher.
- RAM: 4GB or higher.
- Storage Expansion: Via OPS Slot and USB.
- Operating System: Supports Android / Windows (via OPS Slot).

**5. Connectivity:**

- Inputs: HDMI, DisplayPort (DP), USB, OPS Slot.
- Network Connectivity: LAN (RJ45), Wi-Fi.

**6. Audio:**

- Speakers: Built-in (10W x 2).

**7. Power:**

- Power Consumption: 700 W (Max).

**8. Accessories:**

- Includes a Wall Mount Kit.
- Includes a Remote Control.
- Includes all necessary Cables.
- Touch pen.

#### **9. Certifications:**

The display shall be certified and compliant with the following standards:

- BIS (Bureau of Indian Standards)
- CE Marking
- FCC (Federal Communications Commission)

#### **10. Special Features:**

- Split Screen Functionality.
  - Wireless Share (Screen Mirroring) Capability.
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## **Interactive Display(103) Specification:**

### **1. General Requirements:**

The supplied display shall be a high-resolution, interactive, and robust unit designed for superior visual clarity, user engagement, and reliable operation in a professional setting.

### **2. Display Specifications:**

- Screen Size: 103 inches.
- Panel Technology: IPS / LED.
- Resolution: 3840x2160 (4K).
- Aspect Ratio: 16:9.
- Brightness: 400 nits.
- Contrast Ratio: 1200:01:00.
- Viewing Angle: 178° (Horizontal) x 178° (Vertical).
- Refresh Rate: 60Hz.
- Response Time: 8 ms (Gray to Gray - G to G).

### **3. Interactive (Touch) Features:**

- Touch Screen: Yes, with a minimum of 20 points of touch.
- Surface Protection: Tempered Anti-glare Glass.

### **4. Integrated Computing & Storage:**

- Built-in Storage: 64GB or higher.
- RAM: 4GB or higher.
- Storage Expansion: Via OPS Slot and USB.
- Operating System: Supports Android / Windows (via OPS Slot).

### **5. Connectivity:**

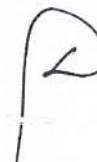
- Inputs: HDMI, DisplayPort (DP), USB, OPS Slot.
- Network Connectivity: LAN (RJ45), Wi-Fi.

### **6. Audio:**

- Speakers: Built-in (10W x 2).

### **7. Power:**

- Power Consumption: 700 W (Max).





## 8. Accessories:

- Includes a Wall Mount Kit.
- Includes a Remote Control.
- Includes all necessary Cables.
- Touch pen.

## 9. Certifications:

The display shall be certified and compliant with the following standards:

- BIS (Bureau of Indian Standards)
- CE Marking
- FCC (Federal Communications Commission)

## 10. Special Features:

- Split Screen Functionality.
  - Wireless Share (Screen Mirroring) Capability.
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## **Interactive Display(75) Specification:**

### **1. General Requirements:**

The supplied display shall be a high-resolution, interactive, and robust unit designed for superior visual clarity, user engagement, and reliable operation in a professional setting.

### **2. Display Specifications:**

- Screen Size: 75 inches.
- Panel Technology: IPS / LED.
- Resolution: 3840x2160 (4K).
- Aspect Ratio: 16:9.
- Brightness: 400 nits.
- Contrast Ratio: 1200:01:00.
- Viewing Angle: 178° (Horizontal) x 178° (Vertical).
- Refresh Rate: 60Hz.
- Response Time: 8 ms (Gray to Gray - G to G).

### **3. Interactive (Touch) Features:**

- Touch Screen: Yes, with a minimum of 20 points of touch.
- Surface Protection: Tempered Anti-glare Glass.

### **4. Integrated Computing & Storage:**

- Built-in Storage: 64GB or higher.
- RAM: 4GB or higher.
- Storage Expansion: Via OPS Slot and USB.
- Operating System: Supports Android / Windows (via OPS Slot).

### **5. Connectivity:**

- Inputs: HDMI, DisplayPort (DP), USB, OPS Slot.
- Network Connectivity: LAN (RJ45), Wi-Fi.

### **6. Audio:**

- Speakers: Built-in (10W x 2).

### **7. Power:**





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- Power Consumption: 700 W (Max).

#### **8. Accessories:**

- Includes a Wall Mount Kit.
- Includes a Remote Control.
- Includes all necessary Cables.
- Touch pen.

#### **9. Certifications:**

The display shall be certified and compliant with the following standards:

- BIS (Bureau of Indian Standards)
- CE Marking
- FCC (Federal Communications Commission)

#### **10. Special Features:**

- Split Screen Functionality.
  - Wireless Share (Screen Mirroring) Capability.
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## Camera Specification (Primary):

### 1. Camera Functional Requirements:

- The camera shall automatically track and follow the faculty based on movement.
- Shall support minimum 20X optical zoom or higher.
- Viewing Angle: Approximately 3° (tele) to 55° (wide) or better.
- Sensor: 1/3" or larger CMOS sensor.
- Effective Pixels: Minimum 2.0 Megapixels.
- Minimum Illumination: 0.5 Lux or better.
- Video Formats Supported:
  - 1080p at 60/50/30/25 fps
  - 1080i at 60/50 fps
  - 720p at 60/50/30/25 fps
- DNR: 2D and 3D Digital Noise Reduction.
- White Balance: Auto/Manual/One-push, adjustable across 3000K–7000K.
- Focus: Auto/Manual.
- BLC (Backlight Compensation): On/Off.
- WDR (Wide Dynamic Range): Dynamic level adjustment.
- SNR:  $\geq 55$  dB.
- Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma curve.

### 2. Panoramic/Overview Camera :

- Sensor: 1/3" or better CMOS.
- Effective Pixels: Minimum 2.0 Megapixels.
- Manual Focus.
- View Angle (Diagonal/Horizontal/Vertical): Approx. 120°/95°/70° or better.

### 3. Interfaces:

- Video Outputs: HDMI x 1, LAN x 1, USB x 1, 3G-SDI x 1 (or equivalent outputs for integration with AV systems).
- Network Interface: 10/100 Mbps Ethernet (RJ45).
- Control Interfaces: RS232/RS485, LAN.

### 4. Compression and Protocols:





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- Video Compression: H.265/H.264 or better.
  - Control Protocols: VISCA, Pelco-D/Pelco-P.
  - Supported Baud Rates: 115200/9600/4800/2400.
  - Network Protocols: RTSP, RTMP, ONVIF compliance.

#### 5. PTZ Capabilities:

- Pan Rotation:  $\geq \pm 170^\circ$ .
- Tilt Rotation:  $\geq -30^\circ$  to  $+90^\circ$ .
- Pan Speed: Up to  $80^\circ/\text{second}$ .
- Tilt Speed: Up to  $60^\circ/\text{second}$ .
- Control Speed (Variable): Pan:  $0.1 \sim 80^\circ/\text{second}$ , Tilt:  $0.1 \sim 60^\circ/\text{second}$ .
- Preset Points: Minimum 255 presets.

Note : Camera should be ceiling mounted.

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## Camera Specification (Secondary):

### 1. Camera Functional Requirements:

- Optical Zoom: Minimum 20X optical zoom or higher.
- Viewing Angle: Approx. 3° (tele) to 55° (wide) or better.
- Sensor: 1/2.8" or larger CMOS sensor.
- Effective Pixels: Minimum 2 Megapixels.
- Minimum Illumination: 0.5 Lux or better.
- Video Formats Supported:
  - 1080p at 60/50/30/25 fps
  - 1080i at 60/50 fps
  - 720p at 60/50/30/25 fps
- DNR: 2D and 3D Digital Noise Reduction.
- White Balance: Auto/Manual/One-push, adjustable across 3000K–7000K.
- Focus: Auto/Manual.
- BLC (Backlight Compensation): On/Off.
- WDR (Wide Dynamic Range): Dynamic level adjustment.
- SNR:  $\geq 55$  dB.
- Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma curve.

### 2. Interfaces:

- USB Ports: At least 1 x USB 2.0 and 1 x USB 3.0.
- LAN Port: 1 x RJ45, 10/100 Mbps.
- HDMI Output: 1 x HDMI.
- RS232: 1 x RS232.

### 3. Compression and Protocols:

- Video Compression: H.265/H.264 or better.
- Control Protocols: VISCA, Pelco-D/Pelco-P.
- Supported Baud Rates: 115200/9600/4800/2400.
- Network Protocols: RTSP, RTMP, ONVIF compliance.

### 4. PTZ Specifications:

- Pan Range:  $\geq \pm 170^\circ$ .



- Tilt Range:  $\geq -30^\circ$  to  $+90^\circ$ .
- Pan Speed: Variable, up to  $60^\circ/\text{second}$  or higher.
- Tilt Speed: Variable, up to  $30^\circ/\text{second}$  or higher.
- Preset Positions: Minimum 255 presets.
- Preset Speed: Pan: up to  $60^\circ/\text{sec}$ ; Tilt: up to  $30^\circ/\text{sec}$ .

Note : Camera should be ceiling mounted.

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**Camera Switcher Specification:**

**1. Type:**

- Dual-channel video switcher mixer suitable for streaming and live event applications.

**2. Video Inputs:**

- Minimum of four resolution-independent inputs:
  - Three inputs supporting up to 2K resolution.
  - One input supporting up to 4K@60 resolution.
- Should support native high-performance sources such as cameras and laptops without quality compromise.

**3. Video Processing Features:**

- Presets for Picture-in-Picture (PIP) and Picture-by-Picture (PBP).
- Full pixel-to-pixel scaling for PIP and background video layers.
- Support for chroma key, video transitions, and dynamic output control.
- Capability to recall saved preset views with scaled video layers.

**3. Audio Features:**

- Selectable audio output, including embedded audio.

**4. Display:**

- Built-in LCD display for live video preview.
- Display should be touch-enabled for operation of device features and settings.

**5. Streaming (Go Live):**

- Superspeed USB 3.0 interface for direct streaming to social media platforms, streaming services, and collaboration applications by connecting to a laptop or compatible device.
- 2K HDMI output port for local preview or live program output, supporting live event switching functionality.

**6. Recording:**

- Dedicated USB port for direct recording of video and audio to a portable HDD (up to 2TB supported).

**7. Control Features:**

- Onboard PTZ camera control capability.
- Ability to save camera attribute views for instant recall.

**8. Preview and Multi-view:**

- Live preview of all input sources on the built-in LCD.





- Capability to connect to a video output for multi-view preview, allowing the operator to view the next preset before switching live.

### **9. Mixing and Switching:**

- Ability to transition and switch between live video and preset views seamlessly.
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## **Wireless Collar and Handheld Microphone System Specification:**

### **1. System Components:**

The complete system shall consist of the following:

- Receiver: 1 unit
- Wireless Handheld Microphone: 2 units
- Wireless Collar Microphone: 2 units (each including a bodypack transmitter and collar microphone)

### **2. General Specifications:**

- Type: UHF Band Frequency Dual Wireless Microphone System.
- Channel Selection: Minimum of 80+ UHF selectable channels.
- UHF Frequency Range: The system shall operate within a UHF frequency range of 583-683MHz or broader.

### **3. Receiver Unit Specifications:**

- Front Panel:
  - Power On/Off Switch: 1 unit.
  - Volume Controls: 4 units, for independent adjustment of input signal levels from each microphone.
  - IR Sensor: 1 unit, for synchronization with transmitters.
  - Channel Frequency Set Button: 1 unit.
  - Displays: 4 individual displays to indicate channel frequency and status for each received channel.
- Rear Panel:
  - Antenna: 4 units.
  - Audio Output (Balanced): 1 x 3-pin XLR female connector.
  - Audio Output (Unbalanced): 1 x 6.35mm (1/4 inch) unbalanced output.
  - Power Jack: 1 unit.

### **4. Handheld Microphone Specifications:**

- Grill: 1 unit.
- IR Window: 1 unit, for synchronization with the receiver.
- LED Screen: 1 unit, for displaying channel frequency, battery status, and other relevant information.
- Power ON/OFF Switch: 1 unit.

### **5. Wireless Collar Microphone Specifications:**



- Bodypack Transmitter: 1 unit.
    - Mic Input: 1 unit (e.g., 3.5mm locking mini-jack or similar, suitable for the collar microphone).
    - Power On/Off Switch with LED Light: 1 unit, with an integrated LED to indicate power status.
    - LED Screen: 1 unit, for displaying channel frequency, battery status, and other relevant information.
    - Battery Compartment: For 2 x AA batteries.
    - Belt Clip: 1 unit.
  - Collar Microphone: 1 unit (omnidirectional or cardioid, suitable for vocal pickup).
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**Wall Mount Speaker Specifications:**

1. Speaker Components:
    - Woofer: 6.5-inch weatherproof woofer.
    - Tweeter: 1-inch silk tweeter.
  2. Power Taps:
    - Selectable power taps for 10W, 20W, 40W, and OFF (for 8-ohm direct input).
  3. Rated Power (at 8 Ohms): 60W.
  4. Peak Power: 80W.
  5. Sensitivity (SPL @ 1M):  $94 \pm 3$  dB.
  6. Maximum SPL @ 1M: 112 dB.
  7. Frequency Response: 65 Hz - 20 kHz.
  8. Dispersion Angle (at 1 KHz):
    - Vertical:  $80^\circ$ .
    - Horizontal:  $100^\circ$ .
  9. Enclosure Material: PP (Polypropylene) enclosure.
  10. Mounting: Includes a 360-degree metal mounting bracket for flexible installation options.
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## Amplifier Specifications:

1. Power Output:
  - Maximum Power: 300W
  - RMS Power (at 10% THD): 250W
  - RMS Power (at 5% THD): 220W
2. Output Regulation: 2 dB, no load to full load at 1kHz.
3. Input Channels:
  - Microphone (Mic) Inputs: 6 channels
    - Sensitivity/Impedance: 0.65mV / 4.7k Ohms
  - Auxiliary (Aux) Inputs: 2 channels
    - Sensitivity/Impedance: 100mV / 470k Ohms
4. Frequency Response: 50 Hz - 15,000 Hz  $\pm 3$ dB.
5. Signal to Noise Ratio (SNR):  $\geq 60$ dB.
6. Tone Controls:
  - Bass:  $\pm 10$ dB at 100Hz.
  - Treble:  $\pm 10$ dB at 10KHz.
7. Outputs:
  - Line Output:
    - 200mV / 600 Ohms
    - 1V / 1k Ohms
  - Speaker Output:
    - Low Impedance: 4 Ohms, 8 Ohms.
    - Constant Voltage: 100V.
8. Integrated Digital Player:
  - MP3 Player with USB port.
  - SD Card slot for plug-and-play functionality.
  - Bluetooth connectivity.
  - Compatible with Radio (Tuner function).
  - Includes EQ (Equalizer) and Recording functionality.
9. Power Supply:
  - AC: 220-240V, 50/60Hz.
  - DC: 12V.

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## 10. Power Consumption:

- AC: 250VA.
  - DC: 4A.
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## **Digital Signal Processor (DSP) Specification:**

### **1. General Requirements:**

The supplied DSP shall be a state-of-the-art digital audio processor designed for comprehensive real-time audio signal management, ensuring superior sound quality, clarity, and comprehensive control.

### **2. Core Processing and Architecture:**

- Processor: Shall feature a high-performance, multi-core DSP chip architecture capable of robust real-time audio processing for all specified functionalities without latency or degradation.
- Sampling Rate: 48KHz or better.

### **3. Input/Output (I/O) Configuration:**

- Microphone Inputs: 4 or more channels.
- Microphone/Line Outputs: 4 or more channels.


### **4. Input Processing Features (Per Channel):**

The DSP shall provide comprehensive processing capabilities for each input channel, including:

- Preamplifier control.
- Signal Generator.
- Expander.
- Compressor.
- Multi-band Parametric Equalization (PEQ) (e.g., 5-band or more).
- Automatic Gain Control (AGC).
- Automatic Microphone Mixing (AMM) function.
- Adaptive Feedback Cancellation (AFC) for effective acoustic feedback elimination.
- Input Gain Amplification: A wide range of gain adjustment, with fine incremental control (e.g., minimum 7 levels or more) suitable for various microphone and line-level sources.

### **5. Output Processing Features (Per Channel):**

The DSP shall provide advanced speaker management and processing capabilities for each output channel, including:

- Multi-band Graphic Equalizer (GEQ) (e.g., 31-band or equivalent precise control).
  - Delay compensation.
  - Crossover filters (High-Pass, Low-Pass, configurable slopes).
  - Limiter for speaker protection.
  - High and low channel filters.
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## 6. Mixing and Advanced Audio Functionality:

- Matrix Mixing: Comprehensive matrix mixing capabilities for flexible routing and mixing of all input signals to all output signals, with individual component control.
- Automatic Mixing Console: Integrated automatic mixing functionality for managing multiple open microphones efficiently.
- Auto Feedback Elimination (AFC): Dedicated module for automatic, real-time acoustic feedback elimination.
- Auto Echo Cancellation (AEC): Dedicated module for automatic acoustic echo cancellation, crucial for clear duplex communication in conferencing.
- Auto Noise Cancellation (ANC): Dedicated module for automatic ambient noise reduction.
- Ducker: Integrated ducker functionality for automatic attenuation of background audio during speech.

## 7. Connectivity and Control Interfaces:

- USB Port (Built-in): Functional as a Microphone input and Audio output for:
  - Software-based Video Conferencing (VC) applications.
  - Recording conference audio directly.
  - Playing digital audio.
- Ethernet Port: RJ45 x 1, for network control and configuration.
- Serial Ports:
  - RS232 x 1, for third-party control system integration.
  - RS485 x 1, for expanded control or device chaining.
- Central Control Command Set: Capability to generate or respond to common control commands for integration with third-party control systems.

## 8. Performance Parameters:

- Frequency Response: 20Hz – 20KHz  $\pm 0.2$  dB or better.
- Background Noise:  $\leq -90$  dBu or better.
- Total Harmonic Distortion + Noise (THD+N):  $\leq 0.004\%$  @4dBu or better.

## 9. System Management and Software:

- Automatic Power Failure Protection: Built-in memory function to retain all configured settings in case of power interruption.
- Phantom Power: Per channel 48V phantom power module or better, selectable for each microphone input.

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## **HDMI Extender Specification:**

### **1. System Components:**

The HDMI Extender system shall consist of:

- 1 x HDMI Extender Transmitter Unit
- 1 x HDMI Extender Receiver Unit

### **2. Core Functionality:**

- Signal Extension: The system shall extend HDMI video and audio signals.
- Cable Type: Connection between the Transmitter and Receiver units shall be via a single Cat6 Ethernet cable.
- Transmission Distance: Supports reliable signal extension up to a minimum of 50 meters (164 feet).
- Video Resolution Support: Supports Full HD (1080p) resolution.

### **3. Connectivity:**

- Transmitter Unit:
  - 1 x HDMI Input port.
  - 1 x RJ45 (Cat6) Output port.
- Receiver Unit:
  - 1 x RJ45 (Cat6) Input port.
  - 1 x HDMI Output port.

### **4. Power Supply:**

- Power adapters for both Transmitter and Receiver units (if required, or PoE capability).
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## **HDMI Distribution Amplifier Specification:**

### **1. General Requirements:**

The supplied HDMI Distribution Amplifier shall be a high-quality device capable of taking a single HDMI input signal and distributing it to multiple HDMI output displays without signal degradation.

### **2. Core Functionality:**

- HDMI Input: 1 HDMI Input port.
- HDMI Outputs: 4 HDMI Output ports.
- Signal Integrity: Maintains full signal integrity, resolution, and audio quality across all outputs.
- Resolution Support: Supports Full HD (1080p) and preferably higher resolutions (e.g., 4K@30Hz/60Hz) for future compatibility.

### **3. Power Supply:**

- Includes an appropriate power adapter.
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## **High-End PC with Recording & Streaming Software, Cables & Connectors:**

### **1. High-End PC Specifications:**

- Processor: Intel Core i7, 12th Generation or newer equivalent.
- RAM: 16 GB DDR4 RAM or higher.
- Storage: 512 GB Solid State Drive (SSD) or larger.
- Operating System: Windows 10 Pro (64-bit) or latest Windows Pro equivalent.
- Graphics: Integrated or dedicated graphics card capable of supporting high-definition video processing and multiple display outputs.
- Ports: Sufficient USB 3.0/3.1/3.2 ports (minimum 4), HDMI/DisplayPort outputs, Ethernet port, Integrated WIFI.
- Form Factor: Desktop (Tower/Small Form Factor) suitable for professional use.
- With keyboard, mouse, monitor.

### **2. Software Requirements:**

- Recording Software: Professional-grade video recording software capable of capturing high-quality video and audio from various sources.
- Streaming Software: Professional-grade live streaming software compatible with popular streaming platforms and capable of efficient video encoding.
- Operating System License: Full and legitimate license for the specified Windows OS.

### **3. Cables and Connectors:**

- All necessary high-quality cables (e.g., HDMI, DisplayPort, USB, Ethernet, Audio) and connectors required for the complete functionality of the PC, including connection to external displays, audio devices, and network infrastructure.
  - All cables shall be of appropriate length and quality to ensure optimal signal integrity and neat installation.
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1. EMD / PBG
2. Make and Model No. of articles (brochure if any)
3. Undertaking (Warranty and Firm is not a Blacklisted from any authority, etc.)
4. Office/Service Center address in the Chhattisgarh State (Bidder/OEM)
5. Escalation Matrix (Bidder/OEM)
6. Compliance of Technical Specification Sheet **with data sheet of the product.**
7. Bidder Turnover (any 3 years of F.Y. 2024-25, 2023-24, 2022-23, 2021-22)
8. Bidder will submit undertaking to quote only original, genuine articles/parts. Refurbished articles will not be permitted.
9. Experience Criteria (3 Years) and Past Performance.
10. OEM Authorization Certificate.
11. Self Declaration Certificate as per attached format (Annexure - "I")
12. Financial Bids as per the prescribed format and also bifurcation of article wise rates of articles, in case of more than one articles.
13. Certifications, if any required.
14. Other documents, available with the bidders related to the articles.

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**Format of Envelope-A**

**Tender Notice for Purchasing/Supply/Testing and Installation of Sub-Component(s) of the Component "Digital Component for SJA" for the use in the Chhattisgarh State Judicial Academy, Bilaspur. (Envelop-"A" Technical Documents)**

**Tender Notice No.**

**Date:-**

To,  
The Registrar General,  
High Court of Chhattisgarh,  
Bilaspur (C.G.)

**From:-**

**Name of the Proprietor  
Complete address of Firms  
with contact numbers and e-mail id)**

**Format of Envelope-B**

**Tender Notice for Purchasing/Supply/Testing and Installation of Sub-Component(s) of the Component "Digital Component for SJA" for the use in the Chhattisgarh State Judicial Academy, Bilaspur. (Envelop-"B" Financial Documents)**

**Tender Notice No.**

**Date:-**

To,  
The Registrar General,  
High Court of Chhattisgarh,  
Bilaspur (C.G.)

**From:-**

**Name of the Proprietor  
Complete address of Firms  
with contact numbers and e-mail id)**

**Format of Envelope-C**

**Tender Notice for Purchasing/Supply/Testing and Installation of Sub-Component(s) of the Component "Digital Component for SJA" for the use in the Chhattisgarh State Judicial Academy, Bilaspur. (Envelop-"C")**

**(Kept inside Envelop-"A" Technical Documents and Envelop-"B" Financial bids)**

**Tender Notice No.**

**Date:-**

To,  
The Registrar General,  
High Court of Chhattisgarh,  
Bilaspur (C.G.)

**From:-**

**Name of the Proprietor  
Complete address of Firms  
with contact numbers and e-mail id)**

**SELF DECLARATION CERTIFICATE**

**(To be given in Bidder's letter head)**

**Ref No.:** \_\_\_\_\_

**Dated** \_\_\_\_\_

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India;

I certify that this bidder is not from such a country.

Date:

**Bidder's Signature with Seal**

OR

if from such a country, has been registered with the Competent Authority, I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

[Where applicable, evidence of valid registration by the Competent Authority shall be attached].

Date:

**Bidder's Signature with Seal**

Self-Declaration for Local Content (MII)

To,  
The Procuring Authority,

Subject: Self-Declaration of Local Content under Public Procurement (Preference to Make in India) Order, 2017

Ref: Bid No.

Sir/Madam,

In accordance with the provisions of the Public Procurement (Preference to Make in India) Order, 2017 as amended and the General Financial Rules (GFR), 2017, I/we hereby declare the following with respect to the items quoted in the above-mentioned bid:

Name of Bidder / OEM	
Name of Product(s)	
Local Content (%)	
Class of Supplier (Class I / Class II)	

I/we certify that the above information is true and correct to the best of my/our knowledge and belief. I/we understand that any misrepresentation of facts may lead to disqualification from the procurement process or cancellation of contract if awarded.

Authorized Signatory  
(Name, Designation, Contact Details)  
Date: 29-07-2025  
Place: \_\_\_\_\_



**Annexure - "J"**

**AUTHORIZATION FROM ORIGINAL EQUIPMENT MANUFACTURER  
(On OEM Letter-Head)**

Date : .....

Authorization Number : .....

To,

**Customer Name**

Ref. : Gem Bid No.

Dear Sir,

We ..... hereby certify that M/s.....having their office at.....

..... GST no. .... is an authorized reseller of ..  
.....

Products and they are authorized to represent ..... in submitting their bid for.....and  
conclude the contract with you.

We are the Original Equipment Manufacturer in respect of the products listed below.

Sr. No.	Product Name	Remarks (Model)
1		
2		
3		

We certify that the Equipment provided by us are not end of life products and the maintenance support for the proposed products will be provided till the warranty period.

We ..... are confident of **M/s**.....ability to represent  
us and provide full support till the warranty period.

We ..... have authorized **M/s**....., to quote for this tender.

Signature of Authorized Person

Name

Designation

Date

Place

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