

## **HIGH COURT OF MADHYA PRADESH: JABALPUR**

### **// NOTICE INVITING E-TENDER //**

Tenders are invited from experienced and reputed firms/ organizations/ Original equipment's Manufacturer (OEM) for the "Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh" under the specifications, terms and conditions mentioned in the tender document. The last date of online tender submission is **28<sup>th</sup> January, 2026 before 06:00 P.M (mandatory)**. The sealed tender complete in all respect addressed to **"Registrar General, High Court of Madhya Pradesh, Jabalpur"** must be submitted before **05:00 P.M on 29<sup>th</sup> January, 2026 (mandatory)**. The technical bids of the tenders shall be opened on **30<sup>th</sup> January, 2026 at 11:30 A.M.** The detailed tender document is available in the official website of the High Court of Madhya Pradesh **[www.mphc.gov.in](http://www.mphc.gov.in)** and Government e-procurement portal **[www.mptenders.gov.in](http://www.mptenders.gov.in)**.

Sd/-

**REGISTRAR GENERAL**

# **HIGH COURT OF MADHYA PRADESH: JABALPUR**

**// NOTICE INVITING E-TENDER //**

**No. Reg(IT)(SA)/2025/2081**

**Dated: 18/12/2025**



**Bid Document for**

**Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh**

**Note:-** This document contains total **57 pages** including cover. No change and modification in the document by the bidder is permissible.

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## Section – I

### // NOTICE INVITING E-TENDER //

No. Reg(IT)(SA)/2025/**2081**

Dated:**18/12/2025**

The Registrar General, on behalf of High Court of Madhya Pradesh invites **e-tenders / online tenders** from experienced and reputed firms/organizations/ Original equipments manufacturer (OEM) for the “**Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh**”.

S. N.	Estimated project cost (In Lakh Rs.)	EMD (In Lakh Rs.)	Cost of online Tender Document (In Rs.)	Date and Time of Pre-Bid Meeting	Last Date / Time of online tender Submission	Last Date/ Time of tender submission in hardcopy	Date and Time of Opening of Technical Bid (online/ hardcopy)	Time for Completion of the work / project
1.	39 Crore	78 Lakh	10,000/-	05 <sup>th</sup> January, 2026 at 11:30 A.M at Committee Hall No. 03 at High Court of Madhya Pradesh	28 <sup>th</sup> January, 2026 before 06:00 PM	29 <sup>th</sup> January, 2026 before 05:00 PM	30 <sup>th</sup> January, 2026 at 11:30 AM	90 days

1. Tender documents may be viewed or purchased online by interested and eligible bidders from the website <https://mptenders.gov.in> after paying Tender fee of **Rs.10,000/-** and Processing Fee, as applicable. The tender document is also available in website <http://www.mphc.gov.in>.
2. Bidders can submit its tender online at <https://mptenders.gov.in/> on or before the key dates given above. The Physical copy of the Technical Bid along with copy of online EMD should also be submitted at the address below latest by **29<sup>th</sup> January, 2026 at 05:00 P.M.**
3. All further notifications/amendments, if any shall be posted on <https://mptenders.gov.in> and [www.mphc.gov.in](http://www.mphc.gov.in) only. No separate communication shall be made with individual Bidders.

**4. The financial bids are to be submitted online and no hard sheet/ copy is to be submitted along with the bid.**

All other terms and conditions for submission of tender are contained in this document. If the date of submission/opening of the Bid is declared as holiday then the bids shall be submitted / opened on next working day.

***The Registrar General, High Court of Madhya Pradesh, Jabalpur (M.P.) reserves the right to accept or reject any or all bids without assigning any reason thereof.***

**Address for communication:-**

**Registrar General,  
High Court of Madhya Pradesh  
Jabalpur (M.P.)**

Email ID: regithcjbptd@mp.gov.in

Landline: 0761-2623358

## Section – II

### 2. INSTRUCTIONS TO BIDDERS:-

#### 2.1 DEFINITIONS:-

- a) **“The Employer”** or **“The Purchaser”** means the "Registrar General, High Court of Madhya Pradesh, Jabalpur".
- b) **“The Bidder”** means a firm which participates in the tender and submits its proposal.
- c) **“Successful Bidder”** means the Bidder, who, after the complete evaluation process, gets the Letter of Award. The Successful Bidder shall be deemed as “Contractor” appearing anywhere in the document.
- d) **“The Letter of Award”** means the issue of a signed letter by the Purchaser of its intention to award the work mentioning the total Contract Value. The timeline for delivery of products and services will start from the date of issue of Letter of Award.
- e) **“The Contract”** means the agreement entered into between the Employer and the Contractor, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- f) **“The Contractor”** means the individual or firm or OEM supplying the Goods / items and Services under this Contract.
- g) **“The Contract Price”** means the price payable to the Successful Bidder under the Letter of Award for the full and proper performance of its contractual obligations. The Contract Price shall be deemed as **“Contract Value”** appearing anywhere in the document.
- h) **“Site Acceptance Test (SAT)”** is a process of testing the contracted services provided by the Bidder at the locations specified by the Registrar General, High Court of Madhya Pradesh. SAT comprises of Product Acceptance Tests with respect to Technical Specifications and Bill of Materials as specified in this tender, checking the installation, commissioning and integration of sub-components and integration with High Court software and acceptance of the Training at the site.

- i) **“Services”** means System Integration, Training and coordinating with the original equipment manufacturer (OEM) for installation, commissioning, system integration and maintenance for proper working of supplied equipments/ items etc.
- j) **“NIT”** is the Notice Inviting Tender. It is essentially the Press Notification of the Tender.
- k) **“OEM”** - means Original Equipment Manufacturer and/or Original Software Developer.
- l) This tender is subject to availability of funds / Budget from the State Government/Department of Justice, Govt. of India.

## **2.2 BID DOCUMENT:-**

2.2.1 The process and procedures of bidding, the materials to be supplied and the various terms and conditions of this tender are provided in the Bid Document. The Bid Documents include:-

- i. Section I Notice Inviting e-Tender
- ii. Section II Instructions to Bidders
- iii. **Section III *Terms and Conditions for E-Tendering.***
- iv. Section IV General Conditions of Contract
- v. Section V Special Conditions of Contract
- vi. Section VI Scope of work
- vii. Section VII Technical Specifications
- viii. Section VIII Format to be used for submission of proposal
- ix. Section IX Certificates

2.2.2 The Bidder should carefully read all the instructions, terms and conditions, specifications and various forms that are provided in the Bid Document. The tender may be rejected if any or all of the information asked for in this document are not furnished along with the tender or if the tender is not responsive with the Bid Document.

## **2.3 AMENDMENT OF BID DOCUMENTS:-**

At any time, prior to the date of submission of Bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification

requested by a prospective Bidder, modify bid documents by amendments by issuing corrigendum / addendum in the website of the High Court.

## **2.4 COST OF BIDDING:-**

The Bidder has to bear all the costs associated with the preparation and submission of the bid. Purchaser will, in no case, be responsible or liable for any of the costs, regardless of the conduct or outcome of the bidding process.

## **2.5 EARNEST MONEY DEPOSIT (EMD):-**

2.5.1 The proposal should be submitted along with **only online** application fee of **Rs.10,000/- (Rs. Ten Thousand Only)** and Earnest Money Deposit (EMD) of **Rs.78,00,000/- Lakh (Rupees Seventy Eight Lakh Only)** in the form of **online mode** through e-procurement tender portal **www.mptenders.gov.in** valid for the period of 06 months in favour of “**Registrar General, High Court of Madhya Pradesh, Jabalpur**”. The Bid submitted without EMD and/or the application fee shall be summarily rejected.

2.5.2 The EMD of the successful Bidder will be returned when the Bidder has signed the Contract Agreement with the purchaser and has furnished the required Performance Guarantee.

2.5.3 The EMD will be forfeited:

(i) *If a Bidder withdraws its bid during the period of bid validity.*

**or**

(ii) *If the Bidder fails to accept the Purchaser's corrections of arithmetic errors in the Bidder's bid (if any),*

**or**

(iii) *If the Successful Bidder fails to sign the contract agreement with the purchaser,*

**or**

(iv) *If the Successful Bidder fails to furnish the Performance Guarantee with in the stipulated time.*

## **2.6 BID PRICES:-**

2.6.1 The Bidder shall give the pricing as individual and as a total composite price inclusive of all levies & taxes, packing, forwarding, freight and insurance etc.

## **2.7 DISCOUNTS:-**

The Bidders are informed that discount, if any, should be included in the total price.



## **2.8 BID VALIDITY:-**

The bids shall remain valid for the period of **180 days from the date of last submission.**

## **2.9 ONLY ONE BID PER PARTY:-**

Each bidder is permitted to submit ONLY ONE BID. In case it is found that any party has submitted more than one bid for the subject work(s) in any of the above capacities, all bids so submitted shall be summarily rejected and the EMPLOYER shall not entertain any further request/ correspondence in this matter.

## **2.10 SUBMISSION OF PROPOSALS:-**

2.10.1 All physical proposals have to be submitted ONLY in **HARDBOUND (Hard bound implies such binding between two covers through stitching or otherwise whereby it may not be possible to replace any paper without disturbing the document)** form with all pages sequentially numbered either at the top or at the bottom right corner of each page. It should also have an index giving page wise information of above documents. Incomplete proposal or those received without hard bound will summarily be rejected. **All the Pages and Papers to be signed and sealed by the authorized signatory of the bidder.**

2.10.2 The Bidders are required to fill up and submit the **Section VIII (only online)** documents with their proposals.

2.10.3 The proposals shall be submitted in two parts, viz.:-

- (a) **Envelope-1:** Containing Copy of Earnest Money Deposit (EMD) valid for the period of six months. The envelope should be superscribed as **“Envelope-1: EMD”** at the top left corner of the envelope.
- (b) **Envelope-2:** Pre-qualification Proposal and Technical Proposal superscribed as **“Envelope 2 – Pre-qualification and Technical Proposal”**(Containing duly signed PRE-QUALIFICATION PROPOSAL SUBMISSION FORM as prescribed in tender, Other required Prequalification documents, clause-by-clause compliance to the technical specifications of the equipments as prescribed in Section-VII, all technical literature, brochures etc.). In the technical proposal, there should not be

any indication about the prices (printed or otherwise) of any of the products offered.

2.10.4 All the sealed envelopes should again be placed in a **single sealed cover** superscribed as *“Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh”* bid from: M/s \_\_\_\_\_ **” “NOT TO BE OPENED BEFORE 11:30 A.M. on 30<sup>th</sup> January, 2026”**, which will be received as time mentioned in the Schedule of Events. The Bid is to be submitted to the **“Inward / Receipt Section of the High Court of M.P., Jabalpur”**.

2.10.5 The Bids and all correspondence and documents relating to the bids, shall be written in English language.

2.10.6 **The financial bids are to be submitted online and no hard copy to be submitted along with the bid.**

## **2.11 LATE BIDS:-**

Any bid received by the Purchaser after the time and date for receipt of bids prescribed by the Purchaser in the tender may be rejected and returned unopened to the Bidder.

## **2.12 MODIFICATION AND WITHDRAWAL OF BIDS:-**

2.12.1 The Bidder is allowed to withdraw its submitted bid any time prior to the last date prescribed for receipt of bids, by giving a written notice to the Purchaser.

2.12.2 Subsequent to the last date for receipt of bids, no modification/ withdrawal of bids shall be allowed.

2.12.3 The Bidders cannot withdraw the bid in the interval between the last date for receipt of bids and the expiry of the bid validity period specified in the Bid. Such withdrawal may result in the forfeiture of its EMD from the Bidder.

## **2.13 LOCAL CONDITIONS:-**

2.13.1 Each Bidder is expected to fully get acquainted with the local conditions and factors, which would have any effect on the performance of the contract and /or the cost.

2.13.2 The Bidder is expected to know all conditions and factors, which may have any effect on the execution of the contract after issue of Letter of Award as described in the bidding documents. The Purchaser shall not entertain any request for clarification from the Bidder regarding such local conditions.

#### **2.14 CONTACTING THE PURCHASER:-**

Any effort by a Bidder influencing the Purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the bid.

#### **2.15 ELIGIBILITY/ PRE-QUALIFICATION CRITERIA:-**

Bidders that meet **ALL** of the following pre-qualification criteria need only apply.

2.15.1 (i) Average Annual Financial turnover of the bidder during last 03 financial years, ending **31<sup>st</sup> March of previous financial year i.e. 2024-25 should be at least Rs.40 Crore.**

2.15.2 (ii) Experience in Supply and installation of Computers Hardware Articles/ Display Boards /Interactive Panels and other related IT Equipment's. during last 05 years ending last day of month previous to the month of publication of this tender, should be either of the following:-

(a) Three similar completed work costing not less than the amount equal to **40% of the estimated cost.**

**OR**

(b) Two similar completed work costing not less than the amount equal to **50% of the estimated cost.**

**OR**

(c) One similar completed work costing not less than the amount equal to **80% of the estimated cost.**

**Similar works means: Supply and installation of IT Equipment's/ Audio Video System Setup etc.**

#### **2.16 SCHEDULE OF EVENTS:-**

The tentative dates for the schedule of key events of this tender are given as under:-

Sl. No.	Events	Date
01	Date of Pre-Bid meeting	05 <sup>th</sup> January, 2026 at 11:30 A.M. The bidders are requested to send their suggestions / queries on following e-mail id:- <b>regithcjbptd@mp.gov</b> as per format of pre-bid query.
02	Last date and time of online submission of proposal (mandatory).	28 <sup>th</sup> January, 2026 before 06:00 PM
03	Last date and time of submission of hardcopy of proposal (mandatory).	29 <sup>th</sup> January, 2026 before 05:00 PM
04	Date and time of opening of the technical Bids	30 <sup>th</sup> January, 2026 at 11:30 AM
05	Date and time of opening of the financial Bid at High Court of Madhya Pradesh, Jabalpur	Date and time of opening of financial bids will be intimated to qualified bidders via e-mail / letter / telephone.

## 2.17 OPENING OF PROPOSAL:-

The Evaluation Committee or its authorized representative will open the tenders.

## 2.18 EVALUATION:-

2.18.1 The Purchaser reserves the right to modify the Evaluation Process at any time during the Tender Process, without assigning any reason, whatsoever, and without any requirement of intimating the Bidders of any such change.

2.18.2 Any time during the process of evaluation, the Purchaser may seek for clarifications from any or all Bidders.

2.18.3 The tender has been invited under two bid system i.e. Technical Bid and Financial Bid. The interested agencies are advised to submit sealed envelopes super as mentioned above under clause **2.10.3**

**Phase-1: Online Application Fee & EMD:** First, the envelope containing Online Application fee and Copy of Earnest Money Deposit will be opened and if both are found furnished by the Bidders in the prescribed manner, then the second envelope containing Pre-Qualification & Technical Proposal documents shall be opened. At any stage during the evaluation, if the EMD is found invalid, the respective Bidder's bid will be summarily rejected.

**Phase-2: Pre-Qualification and Technical Proposal Evaluation:** The Bidder shall have to fulfill all the Pre-qualification Criteria. These documents will be scrutinized along with the Technical Proposal in this phase of evaluation. Those bidders who do not fulfill the terms and conditions of Pre-qualification Criteria as specified in this tender or whose Technical Proposal is non-responsive will not be eligible for further communication. Technical Proposals of the Bidders would be evaluated for the clause-by-clause compliance of the technical specifications as mentioned in the Bid document. Evaluation of Prequalification and Technical Proposal by Registrar General, High Court of Madhya Pradesh shall not be questioned by any of the Bidders. The Purchaser reserves the right to ask for a technical elaboration/clarification in the form of a technical presentation from the Bidder on the already submitted Technical Proposal at any point of time during evaluation process. The proposals shall be opened in presence of their representatives who wish to attend.

**Phase-3: Online Financial proposal of only qualified bidders will be opened for further evaluation.**

**The Commercial Proposal Evaluation will be based on the “individual cost”, which would be the total payouts including all taxes, duties and levies for the “*Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh*”.**

## **2.19 DECIDING AWARD OF CONTRACT:-**

2.19.1 The Purchaser reserves the right to ask for a **technical elaboration/clarification** in the form of a technical presentation from the Bidder on the already submitted Technical Proposal at any point of time before opening after opening of the proposals. The Bidder has to present the required information to the Registrar General, High Court of Madhya Pradesh and its appointed representative on the date asked for, at no cost to the Purchaser.

- 2.19.2 Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors, his bid will be rejected. If there is a discrepancy between words and figures, the amount mentioned in words will prevail.
- 2.19.3 The Purchaser will notify the Successful Bidder on its intention to award the work through “**Letter of Award/ acceptance**” mentioning the total Contract Value. The time line for delivery of products and services will start from the date of issue of Letter of Award.
- 2.19.4 The Purchaser will subsequently send the Successful Bidder the Form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.
- 2.19.5 As soon as practically possible, following receipt of the Form of Contract Agreement, the successful Bidder shall sign and date the Form of Contract Agreement and return it to the Purchaser. This is deemed as the “Contract” or “Contract Agreement” defined elsewhere in this tender document.
- 2.19.6 *The Registrar General, High Court of Madhya Pradesh, Jabalpur may award the entire contract to a single firm or to multiple firms depending upon rates available with the bid.*

**2.20 GENERAL INSTRUCTIONS TO THE BIDDERS:-**

- 2.20.1 The cost of preparing the proposal, cost involved for the technical presentation and of visit to the High Court of Madhya Pradesh is not reimbursable.
- 2.20.2 All cutting, overwriting in the proposal should be authenticated by the initials of the authorized signatory. In case of any calculation error the unit rates would prevail. The amount will also have to be written in words.
- 2.20.3 **Successful bidder must ensure his establishment in India and in the State of Madhya Pradesh for post-installation services and support of the supplied equipments.**

2.20.4 Canvassing in any form will lead to disqualification of the bid.

**2.21 CONFIDENTIALITY:-**

2.21.1 The Bidder shall keep confidential any information related to this tender with the same degree of care as it would treat its own confidential information. The Bidders shall note that the confidential information will be used only for the purposes of this tender and shall not be disclosed to any third party for any reason whatsoever.

2.21.2 As used herein, the term “Confidential Information” means any written information, including without intimation, information created by or for the other party, which relates to internal controls, computer or data processing programs, algorithms, electronic data processing applications, routines, subroutines, techniques or systems, or information concerning the financial affairs and methods of operation or proposed methods of operation, accounts, transactions, proposed transactions or security procedures of either party or any of its affiliates, or any client of either party, except such information which is in the public domain at the time of its disclosure or thereafter enters the public domain other than as a result of a breach of duty on the part of the party receiving such information. It is the express intent of the parties that all the business process and methods used by the Bidder in rendering the services hereunder are the Confidential Information of the Bidder.

2.21.3 At all times during the performance of the Services, the Bidder shall abide by all applicable High Court of Madhya Pradesh security rules, policies, standards, guidelines and procedures. The Bidder should note that before any of its employees or assignees is given access to the Confidential Information, each such employee and assignees shall agree to be bound by the term of this tender and such rules, policies, standards, guidelines and procedures by its employees or agents.

2.21.4 The Bidder should not disclose to any other party and keep confidential the terms and conditions of this tender, any amendment hereof, and any Attachment or Annexure hereof.

2.21.5 The obligations of confidentiality under this section shall survive rejection/termination/expiry of the contract for a **period of five years**.

2.22 *The Government of India had amended the General Financial Rules, 2017 to enable the imposition of restrictions under Rule 144(xi) on bidders from countries which share a land border with India on grounds of defense of India, or matters directly or indirectly related thereto including national security. The bidder has to submit proper documents in this regards as per the policy.*

*As per the Public Procurement (Preference to Make in India), Order 2017, the Class-I local suppliers shall get preference in procurement of goods, services or works. In furtherance of the Revised PPP-MII Order dated 04.06.2020, the Ministry of Electronics & Information Technology (MEIT) has notified the mechanism for calculation of local content for the 13 electronic products vide Notification no. 43/4/2019-IPHW-MeIT dated 07.09.2020.*



### **Section – III**

#### **3. Terms and Conditions for e-Tendering:-**

- 3.1** For participation in e-tendering module, it is mandatory for prospective bidders to get registration on website **<https://mptenders.gov.in/>**. Therefore, it is advised to all prospective bidders to get registration by making on line registration fees payment at the earliest.
- 3.2** Tender documents can be purchased *only online* on payment of tender fees and downloaded from website **<https://mptenders.gov.in/>** by making online payment for the tender document fee.
- 3.3** Service and gateway charges shall be borne by the bidders.
- 3.4** Since the bidders are required to sign their bids online using class – III Digital Signature Certificate, they are advised to obtain the same at the earliest.
- 3.5** For further information regarding issue of Digital Signature Certificate, the bidders are requested to visit website **<https://mptenders.gov.in/>**. Please note that it may take upto 07 to 10 working days for issue of Digital Signature Certificate. Department will not be responsible for delay in issue of Digital Signature Certificate.
- 3.6** If bidder is going first time for e-tendering, then it is obligatory on the part of bidder to fulfill all formalities such as registration, obtaining Digital Signature Certificate etc. well in advance.
- 3.7** Bidders are requested to visit our e-tendering website regularly for any clarification and / or due date extension.
- 3.8** Bidder must positively complete online e-tendering procedure at **<https://mptenders.gov.in/>**
- 3.9** Department shall not be responsible in any way for delay /difficulties /inaccessibility of the downloading facility from the website for any reason whatever.

- 3.10** For any type of clarification bidders can visit <https://mptenders.gov.in>. In case of any assistance please call Help desk numbers 0120-4200462, 0120-4001002. Support timings: Monday to Saturday from 10:00 AM to 07:00 PM.
- 3.11** Interested bidders may attend the free training programme in Bhopal at their own cost. For further query please contact help desk.
- 3.12** The bidder who so ever is submitting the tender by his Digital Signature Certificate shall invariably upload the scanned copy of the authority letter as well as submit the copy of same in physical form with the offer of particular tender.
- 3.13** *In case of any technical issue at the time of filling of bid documents the High Court of Madhya Pradesh will not be responsible for any non-submission / late submission of bid documents.*
- 3.14** *The firms registered under NSIC and MSME (The vendor to be registered with both NSIC and MSME for claiming exemption of tender fees) are exempted for submission of tender fees only. But they have to submit valid EMD as per the tender requirement.*

## Section – IV

### **4 GENERAL CONDITIONS OF THE CONTRACT (GCC):-**

#### **4.1 GENERAL:-**

The Products/equipments supplied under this contract shall conform to the Technical Specifications given in this tender under **Section VII**.

#### **4.2 PERFORMANCE GUARANTEE:-**

4.2.1 The Successful Bidder will be required to furnish performance guarantee in the form of unconditional Bank Guarantee issued by a Nationalized / Scheduled Bank in India equivalent to **05%** of the Contract Value initially valid for a period of **63 months** within **30 days** from the date of contract.

#### **4.2.2 BANK GUARANTEE:-**

The Bank Guarantee issued by following banks would be accepted. SBI or its subsidiaries, any Indian Nationalized Bank/Scheduled Bank, Export Import Bank of India, a foreign bank (issued by a branch outside India) with counter guarantee from SBI or its subsidiaries or any Indian Nationalized Bank, and any scheduled commercial bank approved by RBI having a net worth of not less than Rs.500 Crores as per the latest annual report of the bank.

4.2.3 The Performance Guarantee shall be as per the format approved by the Registrar General, High Court of M.P., Jabalpur.

4.2.4 The Performance Guarantee shall be payable to the Purchaser as a compensation for any loss resulting from the Bidder's failure to complete its obligations under the contract. The Purchaser will discharge the Performance Guarantee after completion of the Bidder's performance obligations, including any warranty obligations, under the contract.

#### **4.3 DELIVERY OF MATERIALS AND RELATED DOCUMENTATION:-**

4.3.1 Delivery, Installation and Commissioning of the materials along with the related documents as per the tender document and technical specification section (**Section VII**) are the responsibility of the Bidder.

4.3.2 The Successful Bidder shall ensure that all Products/equipment are supplied within the Implementation schedule mentioned in the tender document under Section V.

4.3.3 The Successful Bidder shall submit all the Software Kits (CDs), License Papers, Warranty Papers and any other relevant documentation related to

the supplied products to the Purchaser along with the supplied products/equipments.

#### **4.4 WARRANTY:-**

- 4.4.1 The Bidder is required to provide on-site comprehensive warranty **valid for 60 months for all supplied hardware items from the date of installation.**
- 4.4.2 The Bidder shall warrant that all the equipment supplied under the contract is newly manufactured and shall have no defect arising out of design, materials or workmanship or from any act or omission of the Bidder that may develop under normal use of the supplied equipments in the conditions prevailing across the country.
- 4.4.3 The Bidder shall warrant that the services provided under the contract shall be as per the Warranty Service Level Requirements given under **Section-VI**. During the warranty, the Bidder shall perform all the functions as enunciated in Section-VI at no extra cost to the Purchaser. All the penalty clauses shall be applicable during the period of warranty in case of failure on part of Bidder. The terms and conditions for Warranty are given in **Section-VI**.
- 4.4.4 The bidder shall quote for **comprehensive On-Site warranty and support for FIVE years**, which shall become effective after the Final Acceptance Sign-off. The cost, including visits of the engineers etc. shall be quoted as part of the individual equipment prices. No separate charges shall be paid for visit of engineers or attending to faults and repairs or supply of spare parts.
- 4.4.5 The Registrar General, High Court of Madhya Pradesh shall promptly notify the Bidder about any claims arising under this warranty. Upon receipt of such notice, the Bidder shall repair/replace/reconfigure/ re-provisions the defective equipments or service. Replacement under warranty clause shall be made by the Successful Bidder free of all charges at site including freight, insurance and other incidental charges.
- 4.4.6 If the Bidder, having been notified, fails to remedy the defect(s) within the period specified in the Service Level Agreement, the Registrar General, High Court of Madhya Pradesh may proceed to take such remedial action as may be necessary at the Bidder's risk and expense and without

prejudice to any other rights, which Registrar General, High Court of Madhya Pradesh may have against the Bidder under the contract.

#### **4.5 PAYMENT TERMS:-**

4.5.1 For the supply, installation, commissioning, testing and warranty maintenance of all hardware items for the period of 60 months:-

Payments will be made in **Indian Rupees only**.

4.5.1.1 **80% of total price against delivery** of the equipments at the site after submitting the duly verified delivery challan of the site / locations certified by the High Court of Madhya Pradesh/ District Court.

4.5.1.2 **20% of total price against** successful installation and getting Sign-off from High Court of Madhya Pradesh/ District Court.

#### **4.6 PRICES:-**

4.6.1 The rate contract of all the quoted items shall be valid for the period of 01 year from the date of agreement/contract.

4.6.2 The rates and prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subjected to adjustment.

**The rates shall be valid for the period of one year from the date of agreement. However on introduction of new taxes / duties, the rates of the quoted items shall be change in same proportionate. Further, order on approved rates shall be placed by High Court of Madhya Pradesh, Jabalpur on need basis.**

#### **4.7 PURCHASER'S RIGHTS:-**

4.7.1 ***The Purchaser reserves the right to make changes within the scope of the work and Contract and configuration of items at any point of time.***

4.7.2 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds of purchaser's action.

#### **4.8 TIME SCHEDULE TO COMPLETE THE CONTRACT:-**

4.8.1 The successful bidder shall complete the assignment within **90 days from the date of contract.**

4.8.2 The Successful Bidder shall ensure that the delivery of Products/equipment and/or the delivery of the services are in accordance with the time schedule specified in tender documents. In case of any deviation from the schedule,

the Purchaser reserves the right to either cancel the Contract and/or recover Liquidated Damage charges.

4.8.3 The Successful Bidder, if faced with problems in timely delivery of services, which have dependencies on the Service Provider and/or the Purchaser, which are beyond their control at any time before the Final Acceptance Signoff, shall immediately inform the Purchaser in writing, about the causes of the delay and tentative duration of such delay etc. The Purchaser, on receipt of such notice, shall analyze the facts at the earliest and may at its sole discretion, extend the contract period as deemed reasonable.

4.8.4 Any delay by the Successful Bidder in the delivery of Products/equipment and/or the services will make the Successful Bidder liable to any or all of the following:

- i. Forfeiture of Performance Bank Guarantee
- ii. Imposition of Liquidated Damage charges
- iii. Termination of the contract for default.
- iv. Blacklisting of the vendor.

#### **4.9 LIQUIDATED DAMAGES (LD):-**

If the Bidder fails to deliver any or all of the equipment or to perform the services within the time period(s) as mentioned in tender document. Registrar General, High Court of Madhya Pradesh shall without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the **0.5%** of the contract price for every week (seven days) or part thereof of delay, up to maximum deduction of **10%** of the contract price. Once the maximum is reached, Registrar General, High Court of Madhya Pradesh may consider termination of the contract.

#### **4.10 FORCE MAJEURE:-**

4.10.1 Neither party shall be responsible to the other for any delay or failure in performance of its obligations due to any occurrence commonly known as Force Majeure which is beyond the control of any of the parties, including, but without limited to, fire, flood, explosion, Acts of God or any governmental body, public disorder, riots, embargoes, or strikes, acts of military authority, epidemics, strikes, lockouts or other labour disputes, insurrections, civil commotion, war, enemy actions etc.

4.10.2 If a Force Majeure arises, the Bidder shall promptly notify the Registrar General, High Court of Madhya Pradesh in writing of such condition and the cause thereof. Unless otherwise directed by the Registrar General, High Court of Madhya Pradesh the Bidder shall continue to perform his obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. The Bidder shall be excused from performance of his obligations in whole or part as long as such causes, circumstances or events shall continue to prevent or delay such performance.

#### **4.11 TERMINATION:-**

4.11.1 Termination on expiry of the CONTRACT: The Agreement shall be deemed to have been automatically terminated on the expiry of the Contract period unless the Registrar General, High Court of Madhya Pradesh has exercised its option to extend the Contract in accordance with the provisions, if any, of the Contract.

4.11.2 Termination on account of Force Majeure: Either party shall have the right to terminate the Contract on account of Force Majeure.

4.11.3 Termination on account of insolvency: In the event the Successful Bidder at any time during the term of the Contract becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt, then the Registrar General, High Court of Madhya Pradesh shall, by a notice in writing have the right to terminate the Contract and all the Successful Bidder's rights and privileges here under, shall stand terminated forthwith.

4.11.4 Termination for breach of contract: A breach by the Successful Bidder of its obligations hereunder and such breach not being rectified by the Successful Bidder within 30 days of receipt of the Purchaser's notice intimating such breach. Upon termination, the Successful Bidder shall surrender all the data and materials belonging to the Purchaser.

4.11.5 Termination for delay: Successful Bidder shall be required to perform all activities/services as per tender document. If the Successful Bidder fails to do so, the Contract may be terminated by the Registrar General, High Court of Madhya Pradesh by giving 30 days written notice unless the Registrar General, High Court of Madhya Pradesh has extended the period with levy of Liquidated Damages, as per conditions of the tender.

- 4.11.6 The Registrar General, High Court of Madhya Pradesh may at any time terminate the Contract by giving 30 days' notice without assigning any reason.
- 4.11.7 Consequences of termination: In all cases of termination herein set forth, the obligation of the Registrar General, High Court of Madhya Pradesh to pay shall be limited to the period up to the date of effective termination. Notwithstanding the termination of the Agreement, the parties shall continue to be bound by the provisions of the Agreement that reasonably require some action or forbearance after such termination.
- 4.11.8 In case of termination of Contract herein conditions of the tender document the Contractor shall be put on holiday *[i.e. neither any enquiry will be issued to the party by the Registrar General, High Court of Madhya Pradesh against any type of tender nor their offer will be considered by the Registrar General, High Court of Madhya Pradesh against any ongoing tender(s) where contract between the Registrar General, High Court of Madhya Pradesh and that particular Contractor (as a bidder) has not been finalized]* for two years from the date of termination by the Registrar General, High Court of Madhya Pradesh to such Contractor.

#### **4.12 ARBITRATION:-**

In the event of any dispute or difference arising out or touching upon any of the terms and conditions of this contract and / or in relation to the implementation or interpretation hereof, the same shall be resolved initially by mutual discussion and conciliation but in the event of failure thereof, the same shall be referred to the Registrar General, High Court of Madhya Pradesh or his nominee. The sole arbitrator will be appointed by Hon'ble the Chief Justice, High Court of M.P. and the decision of the Arbitrator shall be final and binding on the parties. The arbitration shall be in Jabalpur and the Arbitrator shall give his award in accordance with "***The Arbitration and Conciliation Act, 1996***".

#### **4.13 GOVERNING LAWS AND JURISDICTION:-**

The Agreement shall be governed by the laws in force in India. Any dispute arising in relation to the Agreement shall be subject to the Jurisdiction of the Court at Jabalpur.



## **Section – V**

### **5. SPECIAL CONDITIONS OF THE CONTRACT (SCC):-**

#### **5.1 GENERAL:-**

The conditions given in this Section V, supplement the “Instructions to the Bidders” given in Section II & “GCC” given in Section IV and in case of any conflict, the conditions given herein shall prevail over those in Sections II and IV.

#### **5.2 EQUIPMENTS AND SUPPORTING SOFTWARE:-**

5.2.1 All the equipments / system and related software to be supplied shall conform to the relevant technical specifications as mentioned in Section-VII of this document.

#### **5.3 SITE ACCEPTANCE TESTS (SAT):-**

5.3.1 The Purchaser shall carry out the entire test detailed in the Acceptance test schedule to be furnished by the Contractor to confirm that the performance of the different modules, sub-systems and the entire installation satisfies the specification requirements. The Purchaser reserves the right to include any other tests which in his opinion is necessary to ensure that the equipment meets the specifications.

5.3.2 The Purchaser reserves the right to ask for modifications/additions to the Site Acceptance Test Procedure at any point of time till the Site Acceptance signoff at each location.

5.3.3 The Site Acceptance Tests shall cover the intended functioning of the equipments with proper integration with other sub components and software's.

5.3.4 The contractor shall carry out the Site Acceptance Tests in the presence and supervision of the Purchaser or its designated Officer / agency at the site. The contractor, at its own cost, shall provide the testing equipment/instruments/software programs necessary for performing and demonstrating the Site Acceptance Tests.

5.3.5 The Purchaser or its appointed testing authority shall supervise the tests at each site, as described in the Site Acceptance Test Procedure and performed by the contractor to confirm that the complete solution at each

site satisfies the requirement of specifications including the service performance.

- 5.3.6 The contractor shall rectify all deficiencies immediately, if found, in the performance of the system as per the requirement during the Site Acceptance Tests, at no cost to High Court of Madhya Pradesh, Jabalpur.
- 5.3.7 Any components or parts failing during the acceptance tests shall be replaced free of cost by the Contractor. These replacements shall not be made out of spares supplied by the Contractor as part of supplies under this Contract. This shall also not entitle the contractor to any extension of completion time.
- 5.3.8 The cost of all test and / or analysis shall be fully borne by the contractor. Material put up for inspection shall be those to be supplied and in quantities laid down in the Schedule of Quantities. Any variation shall require the prior approval of the Purchaser before the material is manufactured/ offered for inspection.
- 5.3.9 All material brought to site shall be permitted to be installed only after inspection and acceptance by the Purchaser.
- 5.3.10 The completed installation at all stages shall be subjected to checks and tests as decided by Purchaser. The contractor shall be liable to remedy all of such defects as discovered during these checks and test and make good all deficiencies brought out. The complete installation shall be taken over finally on successful commissioning in entirety.

#### **5.4 CONSIGNEE AND SECURITY OF MATERIAL:-**

Security of all material at the site where the work is in progress shall be the contractor's responsibility and he shall arrange to guard the same from theft/pilferage/vandalism. In the event of any loss the contractor shall be responsible for the same. Any stores lost, prior to formally taking over by the Purchaser, shall be made good by the contractor at no cost to the Purchaser.

## **Section – VI**

### **6. SCOPE OF WORK:-**

**6.1** The Registrar General, High Court of Madhya Pradesh Jabalpur is interested to assign the task for “Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh”.

### **6.2 SUPPLY:-**

Supply of all equipments, materials, components, accessories, mounting hardware, software, wires and cable for connection, etc. as per requirement of High Court of Madhya Pradesh /District Court.

### **6.3 INSTALLATION & WIRING:-**

**6.3.1** Installation & wiring of all equipments, components and accessories.  
Installation of all necessary software's and drivers.

### **6.4 INSTALLATION PRACTICE AND METHOD OF WORK:-**

**6.4.1** The work shall be executed to the highest standards using best quality material. The system design shall use state-of-the art techniques/tools. The contractor shall ensure that the entire specification is complied with the technical specifications. It shall be the responsibility of the contractor to demonstrate compliance of technical as well as functional specifications. Meeting individual requirements shall not be deemed as meeting the overall efficient functioning of the total system.

**6.4.2** The completed installation shall be subject to checks at all stages and tests as prescribed in the bid or as deemed necessary by the Registrar General. The same shall be done by the Purchaser and the contractor shall be liable to rectify such defects as brought out by the Purchaser during these checks and tests and make good all deficiencies at his own cost.

### **6.5 COMPREHENSIVE WARRANTY:-**

The contractor will be required to maintain the installed systems for the period of **FIVE years after the taking-over certificate / installation certificate.**

## **6.6 WARRANTY TERMS AND CONDITIONS:-**

- 6.6.1 The Contractor shall be solely responsible for the maintenance, repair of the whole equipments / items supplied and integrated and the Registrar General; High Court of Madhya Pradesh shall not be liable to interact with any of the partners/ collaborators of the Contractor.
- 6.6.2 The Contractor shall have adequate Technical Support Center to meet the criteria for fault restoration/faulty unit repair times as mentioned in the Section-VI. The Contractor shall furnish the names, locations, complete postal address, telephone numbers and FAX numbers of all Technical support Centers at the time of signing the Contract.
- 6.6.3 The Contractor shall also provide the name of alternate contact person or Technical Support Center with address & telephone /fax numbers/ E-mail which may be contacted by the Registrar General, High Court of Madhya Pradesh or its authorized Officer / staff for support in case of no response/poor response from the designated Technical support center. This however shall not preclude from imposing the penalties, if any, as applicable as per the terms & conditions of this tender.
- 6.6.4 Any change in Address, Phone number, FAX Number, e-mail etc., shall have to be intimated in writing by the Contractor to the Registrar General, High Court of Madhya Pradesh, Jabalpur
- 6.6.5 The Contractor shall ensure that all the Technical support centers are manned by fully competent and responsible Engineers and are capable of attending faults / supporting their engineers at High Court of Madhya Pradesh/ District Court.

## **6.7 WARRANTY SERVICE LEVEL REQUIREMENTS – SLA:-**

### **6.7.1 Service Hours:-**

***The Service window for all the equipments would be for all working days from 09:00 A.M. to 06:00 P.M.***

### **6.7.2 Scheduled Downtime:-**

- (a) Scheduled downtime is defined as the period of time when software application will remain unavailable for conducting necessary preventive

maintenance, urgent repairs etc. This is the maximum duration, which the Contractor can take for scheduled down time purposes.

- (b) It will be expressed in hours.
- (c) The maximum scheduled downtime for any equipment would be 02 days in every calendar month.
- (d) The preventive maintenance would be carried out with a minimum advance notice of 48 hours in writing and subsequent acceptance of the same by Registrar General, High Court of Madhya Pradesh or officer who will execute the contract.

#### **6.7.3 Mean Time To Resolve / solve the problem (MTTR):-**

- (a) MTTR is defined as the arithmetic average of the time taken to attend to resolve the issues logged over a defined period of time.
- (b) The Severity Levels for measuring MTTR are provided in the following table:-

<b>S. No.</b>	<b>Severity Level</b>
1	High
2	Low

6.7.4 The various Service Level Requirements and related penalties for default are given below:-

<b>Parameter</b>	<b>Details</b>	<b>Measurement Criteria</b>	<b>Penalties per day of delay / per fault / per occasion</b>
<i>Mean time to resolve (MTTR)</i>	<i>(i) Within 48 working Hours from the call logging time – for all High Severity events (ii) Within 72 working hours from the time of attending the problem for all Low severity events</i>	<i>Calculation of fault duration per instance based on Fault Docket</i>	<i>(i) For High Severity events, <b>Rs.1000/-</b>. (ii) For Low Severity events, <b>Rs.500/-</b>. Delay will be counted in steps of one hour.</i>

6.7.4.1 The Successful Bidder needs to maintain the Service Levels as follows:

- (a) 99% of the times for the MTTR of High Severity Events
- (b) 95% of the times for the MTTR of Low Severity Events

- 6.7.4.2 The penalty will be applicable on per fault basis even if there is a commonality of fault at any point causing full or part failure of services.
- 6.7.4.3 After the expiry of warranty, it shall be optional for Registrar General, High Court of Madhya Pradesh not to enter the contract further with the contractor. If Registrar General, High Court of Madhya Pradesh is not satisfied with the performance of the Contractor during Warranty it reserves the right to terminate the same during its currency, after **giving a notice** to the Contractor.
- 6.7.4.4 The Contractor has to maintain adequate spares for maintaining the SLA (Service Level Agreement) parameters as mentioned below. Any cost involved to meet the service level requirements specified above is to be borne by the Bidder.
- 6.7.4.5 In case the Service Level Requirements are violated continuously for a period of three months, the Purchaser reserves the right to terminate the Contract by giving a notice to the Successful Bidder.

## **Section – VII**

### **7. TECHNICAL SPECIFICATIONS:-**

All the products/equipment/items supplied should be quoted with:-

- (i) *Five years comprehensive Onsite Warranty and support on all supplied equipments.*
- (ii) All the necessary required cables and other accessories.
- (iii) Enclose all product catalogues and technical brochures of the products / items along with **MANUFACTURER AUTHORIZATION FORM (MAF) addressed to the "Registrar General, High Court of Madhya Pradesh", Jabalpur (M.P.).**
- (iv) The bidder has to quote only 01 product of single make / brand at a time and not multiple brands for same item.
- (v) The Original equipment manufacturer can authorize more than one partner for participation in the bid.

The details of the Hardware articles along with technical specifications are enumerated as given below:-

S. No.	Items	Minimum Specifications* /Make
01.	<b>Sound Reinforcement System Components: For Court Rooms at High Court of Madhya Pradesh (Proposed Type - A)</b>	<b>Minimum Specification – “A”</b>
	1.01: Two Way Column Type Loudspeaker	
	1.02: Multichannel Power Amplifier	
	1.03: Ethernet Enabled Wall Mount Controller	
	1.04: USB to Digital Audio Bridge over IP	
	1.05: Switching & Control System	
02.	<b>Sound Reinforcement System Components: For Court Rooms at District Courts in the State of Madhya Pradesh (Proposed Type - B)</b>	<b>Minimum Specification – “B”</b>
	2.01 Two Way Low-Profile On-Wall Loudspeaker	
	2.02: Multichannel Power Amplifier	
	2.03: Ethernet Enabled Wall Mount Controller	
	2.04: USB to Digital Audio Bridge over IP	
	2.05: Switching & Control System	
03.	<b>Sound Reinforcement System Components: For Court Rooms in Tehsil Courts in the State of Madhya Pradesh (Proposed Type - C)</b>	<b>Minimum Specification – “C”</b>

	3.01 Self-Powered Wall Mount Speaker	
	3.02: USB to Digital Audio Bridge over IP	
<b>04.</b>	<b>Video Monitors /LED Display Panels of Court Rooms (High Court)</b>	<b>Minimum Specification – “D”</b>
	4.01 55” Monitor /LED Display Panels	
	4.02 65” Monitor/LED Display Panels	
	4.03 75” Monitor/LED Display Panels	
	4.04 85”Monitor/LED Display Panels	
	4.05 95” Monitor/LED Display Panels	
	4.06 Motorized Swivel Mount	
<b>05.</b>	<b>Assistive listening system</b>	<b>Minimum Specification – “E”</b>
<b>06.</b>	<b>ATEM Television Studio + AJa U-Tab HDMI</b>	<b>Minimum Specification – “F”</b>
<b>07.</b>	<b>Digital Signal Processors</b> (New Building at District Court, Indore)	<b>Minimum Specification – “G”</b>
<b>08.</b>	<b>Microphones</b> (New Building at District Court, Indore)	<b>Minimum Specification – “H”</b>
<b>09.</b>	<b>Audio Racks</b> (New Building at District Court, Indore)	<b>Minimum Specification – “I”</b>

**Note: -      Please submit the product catalogue / brochure in above serial ORDER only.**



## **Functional Specifications**

### **Sound Reinforcement and Control & Switching System at Court Rooms**

It is important that all audio and video within the courtrooms is most intelligible. The judges should be able to address the court room without making extra effort and anything said by the counsel shall also be audible to not only the bench of judge(s) but also to the rest of courtroom audience.

At the same time, with the availability of video conference, it is expected that audio and video from and to the video conference system will also be equally seamless and of similar experience as the courtroom itself.

At present, the courtrooms in Madhya Pradesh can be classified into three different categories, the courtrooms for high court, court rooms for district & session court and the courtrooms for tehsil courts. All three are of different sizes and have a slightly different architecture. While the rooms at the high court are of larger size and can accommodate a number of audience staff, the courtrooms at district level are slightly smaller in size and have a very small gathering to address. The courtrooms at tehsil level are even smaller in size.

#### **Proposed Solution**

To ensure uniform audio throughout the courtroom it is important to use multiple loudspeakers along with multi-channel amplifiers. The amplifiers shall be connected to a DSP which in turn shall be fed with inputs from the microphone and Webex PC. The input from the Webex PC shall be through the means of USB connectivity to ensure lossless and noise free audio interchange between the DSP and the Webex PC.

Mute setting of microphone and volume level of loudspeakers shall be controlled by a user interface readily available with the court staff.

The key components of the system are following:

#### **Existing Components:**

1. **Microphones:** All courtrooms are already equipped with gooseneck type microphone for audio pickup. The microphones are provided for the Judge(s) and the counsel on the table. Each microphone is equipped with a mute switch and LED indicator for ease of use.

2. **Digital Signal Processor:** All courtrooms are already equipped with a digital signal processor (DSP). The existing DSP is equipped with 12 analog inputs and 8 analog outputs, configurable signal processing, AEC processing, and a high bandwidth, fault tolerant digital audio bus. It has open architecture which is fully configurable through Software. The DSP contains dedicated AEC processing for up to 12 independent AEC algorithms. The AEC algorithm can be applied to signals coming from the local analog inputs or from the digital audio bus. Automatic Gain Control (AGC) and Noise Cancellation (NC) are also provided per AEC algorithm. AGC ensures that microphone levels remain at an optimum level, and NC removes steady state noise (such as from a projector fan or air conditioning device) from the signal path. This processor features a low latency, fault tolerant digital audio bus of 48 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices.

**Proposed Components:**

1. **Multi-Channel Power Amplifier:** It is proposed to use 4 channel power, Class D amplifiers to drive the loudspeakers in each courtroom (for High Courts & District Courts). The amplifier shall be of adequate power rating to drive the loudspeaker at an optimum level. The amplifier shall have LED indicators for status indication on the front panel and discreetly located level control knobs such that it cannot be accessed by unauthorized personnel. The amplifier shall have low THD (Total Harmonic Distortion) and shall operate on Low-Z mode (Low Impedance) to ensure that the loudspeakers are appropriately powered without any loss of signal.
2. **Loudspeakers:**
- a. **Type “A” Courtrooms:** It is proposed to use slim column type, loudspeakers in the courtroom located strategically so that the loudspeakers are not radiating directly into the microphones and also avoiding reflective surfaces such as floor and ceiling. Shall be surface-mount passive column loudspeaker complete with wall bracket set, terminal cover, and accessories.

- b. **Type “B” Courtrooms:** It is proposed to use surface mount loudspeakers in the courtroom located strategically so that the loudspeakers are not radiating directly into the microphones and also avoiding reflective surfaces such as floor and ceiling. It is proposed to use Low Profile loudspeakers. The proposed two-way on-wall loudspeaker should provide rich, detailed wide-range sound and broad, consistent coverage & is equipped with a 4-inch driver in a ported enclosure. Shall be two way low profile Loudspeaker with wall bracket set, terminal cover, and accessories.
- c. **Type “C” Courtrooms:** It is proposed to use surface mount or tabletop loudspeakers in the courtroom since the provision to mount the loudspeakers on a wall may not be available on all the courtrooms. Special attention shall be paid to ensure that the loudspeakers are located at a distance from the microphone and not radiating directly into the microphones. It is proposed to use Active Loudspeaker system for Tehsil courts. The loudspeaker system should be equipped with in built power amplifier which eliminates the needs of an external amplifier. A volume control knob should allow the user to control the audio levels as per the usage. Shall have integrated dual-channel amplifier rated 35-40 W per channel continuous, driving both the master and extension speaker; internal peak limiter and overload protection. It shall achieve a max. SPL of 112db @1M

The proposed audio system shall operate in a mix-minus configuration for optimum audio performance and to prevent feedback in conferencing or sound reinforcement applications (e.g. closest loudspeaker).

**EASE REPORT:**

- a) Vendor shall submit a predictive acoustic model and report generated in EASE 5 or later, including 3D venue geometry, source locations, loudspeaker models, aiming, and processing assumptions used for the design.

- b) The report shall include mapped predictions of SPL (A-weighted), frequency-band responses, and Speech Transmission Index (STI/STIPA). Results shall be presented as audience-area maps and distribution statistics.
- c) Vendor shall state the guaranteed minimum SPL & STI achieved for at least 90% of the listening area.
- d) The EASE report shall explicitly list the exact loudspeaker make/model, presets, acoustic power data, and manufacturer GLL files used.
- e) The contractor shall submit packed EASE project files upon request by the competent authority.

**EASE reports shall display below minimum results:**

**Sound Pressure Level:** The system shall operate at a sound pressure level slightly above the ambient noise levels. To ensure best user experience it is recommended to have the audio at least 15dB higher than the nominal ambient noise levels. The general ambient noise levels for office spaces are considered to be 65-70dB. The proposed audio system shall operate at levels above 80dB to compensate for the noise levels.

**Speech Transmission Index:** The Speech Transmission Index (STI) is an objective measure to predict the intelligibility of speech transmitted from talker to listener by a transmission channel. Speech Intelligibility describes how much of the clearness and distinctiveness of spoken information is preserved when transmitted over a PA system. On a scale of 0 to 1, based on weighted contributions from a range of frequency bands present in speech, the STI for courtrooms shall be > 0.6.

- 3. Ethernet Enabled Wall Mount Controller:** In order to ensure that that court staff have control of the audio system, it is proposed to use a wall controller with configurable buttons and rotary knob for level control. Shall Control & Monitor Parameters in the existing DSP installed example: source select, mute, unmute, volume, preset call. Shall have minimum 4 programmable momentary buttons assignable for binary controls, preset recall, or source selection. Shall have at-least one programmable push /rotary encoder for

continuous parameter control (e.g., volume). The push/rotary encoder can also be pressed for binary parameter control (e.g., mute) or preset recall. Shall support multiple modes of operation to dynamically reassign controls based on selected button context. Shall have the LCD screen which can display custom text for zone/source/level/status etc. It should support 'sleep' functionality. After a specified amount of time with no user input, the Wall Controller can turn off all LEDs. This is useful to avoid distraction in a dimly lit environment. Any user interaction will 'wake up' the controller. It can be remotely locked and unlocked via other control systems. This can be locally unlocked via a four-digit PIN entry on the buttons. Shall have Ethernet port for configuration, control & monitoring and PoE Power; no power adapter shall be required. Contractor to include all necessary terminations, frames, and labeling. Should have full compatibility with the legacy platform, with parameter feedback to the LCD and indicators. Contractor shall demonstrate control of volume, mute, source selection, and preset recall with real-time feedback on LCD and indicators.

- 4. USB to Digital Audio Bridge over IP:** In order to ensure seamless and noise free connectivity between the VC PC and the existing DSP, it is proposed to use a USB audio interface. This will allow audio from a PC to be directly placed onto the BLU link audio bus, enabling easy implementation of softphones for conferencing systems or audio playback directly to/from a computer. Shall operate as an 8x8 USB/DSP Protocol Bridge in Class 2 mode and 2x2 in Class 1 mode, enabling bidirectional audio between a computer and the DSP link bus for soft codecs and playback/record applications. Shall support Windows and macOS Core Audio; Class 1 operation shall be driverless on both platforms; Class 2 shall support driverless macOS and Windows via supplied driver. Full interoperability with Existing DSP and peripherals; ability to place up to eight USB audio channels from workstation onto the DSP link bus for distribution to DSP endpoints. Shall provide low-latency pass-through suitable for live conferencing use and support multiple USB to Digital Audio Bridge over IP units on a single network as required by system design. Contractor has to

demonstrate Functional tests with live softphone and playback/record applications, confirming USB device enumeration, stable audio I/O, and end-to-end level/quality on designated channels.

**5. Switching & Control System:** It is proposed that an extensive state-of-the-art video switching system shall be deployed with at required number of HDMI inputs and HDMI outputs to connect the room input devices (i.e. Workstations, presentation laptops, cameras etc.) and output devices (i.e. workstations for VC, display, monitors etc.). The system shall act as large matrix of inputs and outputs to ensure required video switching is achieved. To enable this functionality, a system controller with a user interface touch panel shall be provided. The controller shall control and monitor all system devices and parameters and shall be used to create single touch presets for room operation mode.

a. **Automation Control System:** It is proposed to have a centralized AV control system built on Linux based controllers capable of secure, reliable automation of displays, switchers, audio DSP, lighting, blinds, and video conferencing peripherals with an IT-aligned security posture and web management. It shall have modern embedded processor, industrial-grade eMMC storage, and secure Linux OS, supporting concurrent scripting in JavaScript, Python, Groovy, Node-RED flows etc. System shall support IP control of endpoints and discovery/management of devices and third-party equipment via available manufacturer protocols and drivers. It shall expose serial (RS-232/422), IR, GPIO/I-O, relays, and an isolated device network for direct control of third-party equipment and secure segregation of AV devices. To ensure Interoperability, Security & Reliability products are mandatory to be JITC Certified. Shall support TLS/HTTPS access to management interfaces, certificate-based updates where available, and network hardening consistent with enterprise IT standards. Shall provide watchdogs, scheduled tasks, and health monitoring; system shall log key events and support remote diagnostics; design for 24/7 operation with rapid recovery after power loss. Should support custom

application based user interface on existing Wacom touch devices in the court room. Contractor need to demonstrate end-to-end control of all connected devices, preset operations, fault handling, and recovery; verify network segregation and user roles; validate switching performance and HDCP behavior in live scenarios.

**6. Video Monitors/ Display Panels:** It is proposed that video monitors be installed in the courtrooms for the purpose of video conferencing (VC). As per the courtrooms, the monitors to be installed should be of suitable size (65"/75"/85"/95"), resolution, and technical specifications to ensure seamless video conferencing functionality, clarity of display, and effective communication during proceedings.

**"SPECIFICATION –A"**

**Sound Reinforcement System Components: For Court Rooms at High Court of M.P.**

**1.01: Two Way Column Type Loudspeaker**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
1	HF Drivers:	Should have at least Two x 1-inch tweeters or equivalent	
2	LF Drivers:	Should have Minimum Two or better woofers	
3	Frequency Range:	Should be 85 Hz – 20 kHz or better	
4	Frequency Response:	Should be 130 Hz – 18 kHz or better	
5	Power Rating:	Should support Minimum 280W Peak Power or better with Continuous Program power (2 hrs) of 150W or better	
6	Transformer Taps (70V / 100V):	Should meet or exceed selectable tapping points at 60W, 30W, 15W @ both 70V & 100V that control the power delivered to the speaker.	
7	Impedance:	Should meet or exceed maximum Impedance level equal to 8 Ohms	
8	Coverage Angle (H):	Should be 160°- 180° or better	
9	Coverage Angle (V):	Should be 100°- 120° or better with flexibility of 8°-10° down-tilt to vertical aiming or better	
10	Maximum SPL (pk):	Should meet or exceed SPL in a range of 110 dB to 125 dB @ 1m	
11	Sensitivity @1m:	Should be 86dB or better	
12	Directivity	Should meet or exceed Directivity Index of 8db ~ 9db or better	
13	Maximum Input Voltage:	Should meet or exceed Minimum 30 V RMS (2 hrs), 60 V peak or better	
14	Enclosure Material:	Should meet or exceed minimum UL 94-V0 / EN54-24 or better flammability ratings with an enclosure made up of poly Carbonate (PC) either with ABS or Aluminum or Metallic with proper powder coated grill system either made up of Zinc or Aluminum or Metallic material	
15	Terminal:	Should have 4-pin Euro block connection	
16	Mounting:	Should Support WALL and SPEAKER sections with minimum Swivel (Pan) / Tilt wall brackets with Horizontal left-right swivel: z95° degree and adjustable Vertical tilt of +0°/-10° hinged (attached) via M6 x 12 mm bolts, flat washers, and lock washers along with a L-bracket that can be positioned on either top or bottom as per the requirement at site to meet the required performance levels in the court room during QC test	
17	Ratings:	Should meet or exceed the following to meet the required performance levels in the court room during QC test:	

		1) Should have Transformer UL recognized and RoHS compliance. 2) LVD for CE; IP-4X rated as per IEC Standards for dust and water protection.	
18	Deliverables:	SPL: Considering ambient noise levels to be 65-70 db, proposed speaker solution shall operate at +80db max going up to 95db. Ease reports need to be submitted to support the results.	

### **1.02: Multichannel Power Amplifier**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	Amplifier Type:	Multichannel Class D Power Amplifier which support the functionality of front panel monitoring with provided individual LED Status bar of Fault, Clip, Signal and Power. Amplifier and Two Way Column Type Loudspeaker should be from the same OEM.	
2.	Number of Channel:	Should support minimum four Input & four output channel	
3.	Frequency Response:	Should be 20Hz - 20Khz or better	
4.	Power Output:	Should support minimum 150W or more, each channel output	
5.	Input Sensitivity:	Should be 1.0V or better	
6.	THD+ N Ratio:	Should be <0.5% (max.)	
7.	SNR (A-weighted):	>90dB or better	
8.	Input Routing :	Input routing to be done either in Parallel Mode ( Input 1 routed to 2 and Input 3 routed to 4) or Matrix Mode from amplifier or through DSP amplifiers ensuring connectivity to the existing systems where ever technically possible	
9.	Operating Mains Voltage	Should support 230V(±10%) 50Hz	

### **1.03: Ethernet Enabled Wall Mount Controller**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	Button Panel / Controller Type:	Ethernet Enabled Wall Mount button Panel / Controller with Volume Control Knob	
2.	Number of Button:	Should have minimum 4 programmable or rotary/pushbutton selector switch/knobs	
3.	Volume Control Knob:	Should have one programmable push/rotary encoder	
4.	Operation Modes:	<p>Ethernet port for configuration, control, monitoring, and power via PoE</p> <p>Should have an OLED / LED display of minimum 1.5-inches (diagonal) and min 64x128 pixels or better resolution for easy-to-read menus and status. Status Indication could be via RGB LED bar or other alternatives like encoder ring can display a bouncing audio meter or display a volume setting to provide a local, intuitive control over a complex, networked audio setup. Suitable mechanism (like buttons or knobs) to be provided for binary parameter control, source selection and preset recall function</p> <p>Should support Sleep Function</p> <p>Should support Lockout Function</p> <p>Optional support Encoder and Encoder Ring</p> <p>Should have Color Options as per the actual site requirement</p> <p>4 Zone Mode: 4 banks of 4 assignable buttons and continuous / toggle controls; Hybrid Mode: Mix of 1 Zone Mode and 4 Zone Mode</p> <p>Should be available in single-gang EU shapes for Indian environment</p> <p>Should support seamless integration with existing DSP</p>	
5.	Security:	Should support remote lock/unlock and local unlock via PIN entry. It should be locked during the Sleep Function or at any other time. A 4-digit PIN must be entered in order to unlock the controller.	



#### **1.04: USB to Digital Audio Bridge over IP**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Specifications</b>	<b>Technical Compliance Yes/No</b>
1.	Unit Type:	Should meet or exceed the functionality of USB to Digital Audio link Bridging which should support seamless integration with any DSP. It should work as "No driver installation"	
2.	I/O Audio Channel Routing:	Should support minimum 8 channels from Digital Audio link to USB, and 8 channels from USB to Digital Audio link over ethernet cable	
3.	Sample Rates:	Should meet or exceed sample rates range from 48KHz to 96kHz	
4.	Bit Depths:	Should meet or exceed bit depths range from 16Bits to 24 Bit	
5.	Supported Drivers:	Windows & Mac	
6.	Mains Voltage:	100-240V AC, 50/60Hz or better	
7.	Applications Supported:	Conferencing using soft codecs; Background music and audio announcement playback; Archiving; Studio/Live Sound	

#### **1.05: Switching & Control System**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
1.	8X8 4K HDMI Switcher	8×8 fixed HDMI 2.0 matrix switcher supporting 4K60 4:4:4 video; Video Inputs: 8 HDMI Type A Video Outputs: 8 HDMI Type A Pixel-for-Pixel switching without scaling; pixel-for-pixel path without format conversion Shall support for HDR10+, Dolby Vision, and 36-bit Deep Color for high-fidelity imaging; Shall support for HDCP 1.4/2.2 with appropriate routing/handshake behaviour; Shall support EDID Management; any display EDID can be mirrored to any input independently Data Rate: 18Gbps or better Pixel Clock: 590 Mhz or better Audio Format: Shall support PCM Multi-Channel, Dolby Digital, Dolby Digital Plus, Dolby Atmos, Dolby TrueHD, DTS, DTS HD MA Control & Switching System should be from same OEM/Manufacturer.	
2.	Automation Control System	Should meet or exceed the following: The system shall provide a hardware-based AV control platform with USB-C / Lan programming, USB-A host for logging or IR input, and interfaces including at least 4 serial, 4 IR, 4 relays, 4 GPIO, and Ethernet control on a secure Linux-based controller with industrial-grade eMMC storage, compliant with CE, UL, IEC, and RoHS/WEEE standards. It shall include either a 10–12" wireless Android/iOS tablet (min. 8GB RAM, 128GB storage, Wi-Fi/5G, adaptive 90Hz display, IP68, 8000mAh battery, metal frame, tabletop mount, full control GUI) or a professional-grade 10–12" PoE-powered touch panel (1920×1080/1200 resolution, 350–400 nits, capacitive multi-touch, wall/table mounting), optional built-in mic, optional speaker, Optional camera, NFC, proximity and light sensors. The system must support HTTPS, TLS 1.3, OAuth 2.0, 802.1X, FIPS 140-3, and customizable GUI with over 1 million colors, along with all required accessories, software licenses, and mounting hardware to ensure complete functionality and professional-grade performance.	

### **“SPECIFICATION – B”**

#### **Sound Reinforcement System Components: For Court Rooms at District Courts**

##### **2.01: Two Way Low-Profile On-Wall Loudspeaker**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
1.	LF Drivers:	Should be 4-6 in or better	
2.	HF Drivers:	Should be 0.75 in or better	
3.	Frequency Range:	Should be 75Hz - 20kHz or better	

4.	Frequency Response:	Should be 90Hz – 20kHz or better	
5.	Power Rating:	Should support Minimum 100W or better Continuous Program (2 hrs)	
6.	Transformer Taps (70V / 100V):	Should support 70V: 25 W, 12.5 W, 6.3 W, 3.2W 100V: 25 W, 12.5 W, 6.3 W	
7.	Impedance:	Should be 8 Ohms	
8.	Coverage Angle (H):	Should be 120°- 180 or better	
9.	Coverage Angle (V):	Should be 100°-120° or better; 12°-15° down-tilted coverage with flush-to-wall mounting	
10.	Maximum SPL (pk):	Should be 106dB or better	
11.	Sensitivity:	Should be 85dB or better	
12.	Directivity	The speaker shall exhibit a Directivity Index (DI) of at least 6.0 dB or better	
	Maximum Input Voltage:	Should be 18 V RMS (2 hrs), 36 V peak	
	Enclosure Material:	The enclosure shall be made from polycarbonate / ABS / zinc / aluminum-plated metal with powder-coated SPCC grille, It would be better if it is also compliant with UL94V-0 / EN54-24 flammability ratings (Optional).	
	Mounting:	Should be supplied with Wall-mount slide-on bracket (speaker and wall sides); 4-pin Euroblock plug, protective terminal cover for outdoor use.	
13.	Ratings:	Transformer UL Recognized per UL1876. ROHS, REACH compliant. LVD for CE	
	Mounting accessories:	Standard	
	Compatibility	Compatible with existing system.	

### **2.02: Multichannel Power Amplifier**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1	Amplifier Type:	Multichannel Class D Power Amplifier which support the functionality of front panel monitoring with provided individual LED bar of Fault, Clip, Signal and Power. Amplifier and Two Way Column Type Loudspeaker should be from the same OEM.	
2	Number of Channel:	Should support minimum four Input & four output channel	
3	Frequency Response:	Should be 20Hz - 20Khz or better	
4	Power Output:	Should support minimum 150W or more, each channel output	
5	Input Sensitivity:	Should be 1.0V or better	
6	THD+ N Ratio:	Should be <0.5% (max.)	
7	SNR	>90dB or better	
8	Input Routing :	Input routing to be done either in Parallel Mode (Input 1 routed to 2 and Input 3 routed to 4) or Matrix Mode from amplifier or through DSP amplifiers ensuring connectivity to the existing systems where ever technically possible and to meet the required performance levels in the court room during QC test.	
9	Operating Mains Voltage	Should support 230V(±10%) 50Hz	

### **2.03: Ethernet Enabled Wall Mount Controller**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	Button Panel / Controller Type:	Ethernet Enabled Wall Mount button Panel / Controller with Volume Control Knob	
2.	Number of Button:	Should have minimum 4 programmable or rotary/pushbutton selector switch/knobs	

3.	Volume Control Knob:	Should have one programmable push/rotary encoder	
4.	Operation Modes:	Ethernet port for configuration, control, monitoring, and power via PoE	
		Should have an OLED / LED display of minimum 1.5-inches (diagonal) and min 64x128 pixels or better resolution for easy-to-read menus and status. Status Indication could be via RGB LED bar or other alternatives like encoder ring can display a bouncing audio meter or display a volume setting to provide a local, intuitive control over a complex, networked audio setup. Suitable mechanism (like buttons or knobs) to be provided for binary parameter control, source selection and preset recall function	
		Should support Sleep Function	
		Should support Lockout Function	
		Optional support Encoder and Encoder Ring	
		Should have Color Options as per the actual site requirement	
		4 Zone Mode: 4 banks of 4 assignable buttons and continuous / toggle controls; Hybrid Mode: Mix of 1 Zone Mode and 4 Zone Mode	
		Should be available in single-gang EU shapes for Indian environment	
		Should support seamless integration with existing DSP	
5.	Security:	Should support remote lock/unlock and local unlock via PIN entry. It should be locked during the Sleep Function or at any other time. A 4-digit PIN must be entered in order to unlock the controller.	

#### **2.04: USB to Digital Audio Bridge over IP**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	Unit Type:	USB to Digital Audio link Bridge which Should support seamless integration with existing DSP. It should work as "No driver installation" mode.	
2.	I/O Audio Channel Routing:	Should support minimum 8 channels from Digital Audio link to USB, and 8 channels from USB to Digital Audio link over ethernet cable	
3.	Sample Rates:	Should meet or exceed sample rates range from 48KHz to 96kHz	
4.	Bit Depths:	Should meet or exceed bit depths range from 16Bits to 24 Bit	
5.	Supported Drivers:	Windows & Mac	
6.	Mains Voltage:	100-240V AC, 50/60Hz or better	
7.	Applications Supported:	Conferencing using soft codecs; Background music and audio announcement playback; Archiving; Studio/Live Sound	

### **"SPECIFICATION – C"**

#### **Sound Reinforcement System Components: For Court Rooms in Tehsil Courts**

##### **3.01: Self-Powered Wall Mount Speaker**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1	LF Drivers:	Should be 5.25 inch - 8.0 inch LF Driver or better	
2	HF Drivers:	Should be .75 in tweeters or better	
3	Coverage Angle	The speaker shall have a nominal coverage of 90° horizontal × 90° vertical or better	
4	Frequency Range:	Should be 85Hz – 20 kHz or better	
5	Frequency Response:	Should be 105 Hz – 18 kHz or better	
6	Power Output:	Should be 35W + 35W or better	
7	Maximum SPL (pair):	Should be 112dB or better	

	Input Sensitivity:	Should be +4 dBu XLR 1/4"; 0 dBu RCA or better	
8	Crossover Frequency:	Should support 4.2kHz	
	Enclosure Material:	The cabinet shall be constructed from polypropylene structural foam or equivalent high-density composite, with a zinc-plated or powder coated steel grille	
	Terminal:	Should have 2 x Balanced Neutrik 62 Combo XLR 1/4" TRS; Unbalanced RCA	
	Mounting:	Should be supplied with OEM Specific Mounting Bracket	
	Power	Standard	
	Accessories / Compliance	Standard	

### **3.02: USB to Digital Audio Bridge over IP**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
1.	Unit Type:	USB to Digital Audio link Bridge which Should support seamless integration with existing DSP. It should work as "No driver installation" mode.	
2.	I/O Audio Channel Routing:	Should support minimum 8 channels from Digital Audio link to USB, and 8 channels from USB to Digital Audio link over ethernet cable	
3.	Sample Rates:	Should meet or exceed sample rates range from 48KHz to 96kHz	
4.	Bit Depths:	Should meet or exceed bit depths range from 16Bits to 24 Bit	
5.	Supported Drivers:	Windows & Mac	
6.	Mains Voltage:	100-240V AC, 50/60Hz or better	
7.	Applications Supported:	Conferencing using soft codecs; Background music and audio announcement playback; Archiving; Studio/Live Sound	

## **"SPECIFICATION – D"**

### **Video Monitors / LED Display Panels of Court Rooms**

#### **4.01: 55" Monitor/LED Display Panels**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
1	LED Screen Size (diagonally)	55"	
2	Supported native resolution	UHD (3840X2160)	
3	HDMI inputs	3 built-in	
4	Work satisfactorily with VC Systems	Yes	
5	LAN (RJ-45) port or Wi-Fi connectivity for direct presentation or application sharing on display unit	Yes	
6	Display working/operations hours	16X7 hours or higher	
7	Shall operate for 10000 hrs or more	Yes	
8	Brightness	400 nits or more	
9	Audio amplifier for 20 W or higher RSM power with speakers (built in or external)	Yes	
10	Easy to use infrared remote controller	Yes	
11	Number of HDMI cables supplied	3 No. of 5 meters	
12	OEM supplied table top stand or wall mount kits as required	Yes	
13	Compliance & Certifications -	India Factory Certification ISO-9001:2015, BIS registered and RoHS (Declaration of Conformity of RoHS with testing report), EPR Complied.	
14	Comprehensive On Site Warranty	Five(5) Years	

#### **4.02: 65" Monitor/LED Display Panels**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
<b>1</b>	<b>65" Monitor /LED Display Panels</b>	65-inch Ultra HD professional signage display with native resolution of 3840×2160 pixels, brightness of 400 cd/m <sup>2</sup> (typical), contrast ratio of 1200:1, supporting 1.07 billion colors (8-bit + FRC), 80% DCI-P3 color gamut, and 178° viewing angle (H/V). The display shall feature 8 ms response time, 3% surface haze, and a panel lifetime of 30,000 hours or more. The unit shall be equipped with embedded operating system on a built-in SoC, with integrated Wi-Fi, 8 GB internal storage, USB plug-and-play, and support for Miracast and Apple AirPlay screen sharing. Connectivity shall include minimum 3 HDMI inputs (HDCP 2.2/1.4), 2 USB 2.0 ports, 1 LAN (RJ45), RS-232C in/out, and audio out, along with 2 × 10W built-in speakers. The display shall support both portrait and landscape installation, designed for 16 hours/day × 7 days/week operation, with standard VESA mounting. All fittings/mountings & accessories (wall/ceiling mount as per the site requirement) should be included. Compliance & Certifications - <u>India Factory Certification ISO-9001:2015, BIS registered, and RoHS (Declaration of Conformity of RoHS with testing report), EPR Complied. Comprehensive On Site Warranty - Five(5) Years</u>	

#### **4.03: 75" Monitor/LED Display Panels**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
<b>1.</b>	<b>75" Monitor /LED Display Panels</b>	75-inch Ultra HD professional signage display with native resolution of 3840×2160 pixels, brightness of 400 cd/m <sup>2</sup> (typical), contrast ratio of 1200:1 (dynamic 1,000,000:1), supporting 1.07 billion colors (8-bit + FRC), 80% DCI-P3 color gamut, and 178° viewing angle (H/V). The display shall feature 8 ms response time, 3% surface haze, and a panel lifetime of 30,000 hours or more. The unit shall be equipped with an embedded operating system on a built-in SoC, with integrated Wi-Fi, 8 GB internal storage, USB plug-and-play, and support for Miracast and Apple AirPlay screen sharing. Connectivity shall include minimum 3 HDMI inputs (HDCP 2.2/1.4), 2 USB 2.0 ports, 1 LAN (RJ45), RS-232C in/out, and audio out, along with 2 × 10W built-in speakers. The display shall support both portrait and landscape installation, designed for 16 hours/day × 7 days/week operation, with standard VESA mounting. All fittings/mountings & accessories (wall/ceiling mount as per the site requirement) should be included. Compliance & Certifications - <u>India Factory Certification ISO-9001:2015, BIS registered, and RoHS (Declaration of Conformity of RoHS with testing report), EPR Complied. Comprehensive On Site Warranty - Five(5) Years</u>	

#### **4.04: 85" Monitor/LED Display Panels**

<b>S. No.</b>	<b>Item description</b>	<b>Minimum Parameters</b>	<b>Technical Compliance Yes/No</b>
<b>1.</b>	<b>85" Monitor /LED Display Panels</b>	85-inch Ultra HD professional signage display with native resolution of 3840×2160 pixels, brightness of 400 cd/m <sup>2</sup> (typical), contrast ratio of 1200:1 (dynamic 1,000,000:1), supporting 1.07 billion colors (8-bit + FRC), 80% DCI-P3 color gamut, and 178° viewing angle (H/V). The display shall feature 8 ms response time, 3% surface haze, and a panel lifetime of 30,000 hours or more. The unit shall be equipped with an embedded operating system on a built-in SoC, with integrated Wi-Fi, 8 GB internal storage, USB plug-and-play, and support for Miracast and Apple AirPlay screen sharing. Connectivity shall include minimum 3 HDMI inputs (HDCP 2.2/1.4), 2 USB 2.0 ports, 1 LAN (RJ45), RS-232C in/out, and audio out, along with 2 × 10W built-in speakers. The display shall support both portrait and landscape installation, designed for 16 hours/day × 7 days/week operation, with standard VESA mounting. All fittings/mountings & accessories (wall/ceiling mount as per the site requirement) should be included. Compliance & Certifications - <u>India Factory Certification ISO-</u>	

	9001:2015, BIS registered, and RoHS (Declaration of Conformity of RoHS with testing report), EPR Complied. Comprehensive On Site Warranty - Five(5) Years	
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#### **4.05:95" Monitor /LED Display Panels**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	<b>95" Monitor /LED Display Panels</b>	95-inch 4K UHD (3840×2160) IPS signage display with typical brightness of 500 cd/m², contrast ratio 1200:1, dynamic contrast 1,000,000:1, 10-bit color depth (1.07 billion colors), 178° viewing angle (H/V), and 8 ms gray-to-gray response time. Surface treatment shall be 28% haze, panel lifetime of 50,000 hours or more, and certified for 24-hour × 7-day continuous operation. The unit shall run embedded OS on built-in SoC, be IP5X dust-protected, use conformal coating on the power board. Connectivity shall include a minimum of 3× HDMI inputs, Display Port, DVI-D, RS-232C IN/OUT, RJ45 LAN, USB 2.0, IR input, audio in/out, and built-in speakers. All fittings/mountings & accessories (wall/ceiling mount as per the site requirement) should be included. Compliance & Certifications - <u>India Factory Certification ISO-9001:2015, BIS registered, and RoHS (Declaration of Conformity of RoHS with testing report), EPR Complied. Comprehensive On Site Warranty - Five(5) Years</u>	

#### **4.06: Motorized Swivel Mount**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1.	<b>Motorized Swivel Mount</b>	Heavy Duty Electric Swivel Mechanism; Maximum Screen Size 2220mm (87 3/8") W @ 90 - 2600mm (102 3/8") W @ 55; Maximum Weight Capacity 125Kg; Speed- 25mm/s; Extension From Wall- At least 1143mm (45 ") to screen centre; Depth From Wall 147mm; Maximum Rotation 90 - one direction (Clockwise/Anticlockwise); Mounting Patterns Supported VESA 900, 800, 600, 400 W x 600, 400 H, 300; Control Options IR Remote, RS232, Contact Closure	

### **Specification – “E”**

#### **05: Assistive Listening System**

S. No.	Minimum Parameters	Technical Compliance Yes/No
1	The system shall provide a full assistive listening system consisting of Controllers, Transmitters, Dedicated receivers, and Charging docks under a single brand. The system shall be utilizing Auracast™ Broadcast Audio technology and allowing an unlimited number of users to receive the audio stream. The end-to-end latency of the system with dedicated receivers shall be less than 40 milliseconds in all Auracast™ Standard Quality configurations.	
A	<b>Controller:</b> The controller shall include a push on/push off latching power button for convenient control. The controller shall include a multi-purpose RJ-45 connection for digital audio networking, transmitter configuration and control, and PoE output. The controller's single, multipurpose RJ-45 port shall support Dante audio networking. The controller shall provide Power over Ethernet (PoE) output to supply power to the Infinium Transmitter. The controller shall support Mic inputs via XLR /1/4" combination and/or terminal block connectors. The controller shall include a single 1/4" headphone/audio output jack. The controller shall feature a hosted web page accessible via the dedicated RJ-45 Ethernet control port The controller shall support DSP programmable audio processor functions including compression, high-pass filter frequency, low-pass filter frequency, and audio presets. Audio presets shall include Hearing Assistance, Music, Voice, and Disable The controller shall meet the following compliance standards: FCC, RoHS3, WEEE, CE	
B	<b>Transmitter:</b>	

	<p>The system shall include Bluetooth LE (BLE) Auracast transmitters.</p> <p>The transmitter shall have a single RJ45 connector.</p> <p>The transmitter shall support a single Ethernet Cat 5e cable delivery of audio, device configuration, device status, PoE power input and firmware updates.</p> <p>The transmitter shall support Dante audio via the single multi-purpose RJ45 connector.</p> <p>The transmitter shall broadcast two independent mono or one stereo BTLE audio streams per with Bluetooth LE Auracast guidelines.</p> <p>The transmitter shall have the flexibility to adjust output power to meet the desired coverage needs of the space.</p> <p>The transmitter shall support broadcast of 16 kHz and 24 kHz (Auracast™ Standard), as well as 48 kHz (Auracast™ High) sample rates.</p> <p>The transmitter shall include LED status indicator that can be disabled via programming interface.</p> <p>The transmitter shall support Ceiling Mount, Wall Mount and Shelf Placement installations.</p> <p>The transmitter shall meet the following compliance standards: FCC, RoHS3, WEEE, CE</p>	
C	<p><b>Receiver:</b></p> <p>The system shall include dedicated receivers for users without Auracast™ equipped devices.</p> <p>The receiver shall include a 3.5 mm stereo jack to support neck loops compatible with T-coil hearing aids, assistive listening headphones or earphones as desired by the user.</p> <p>The receiver shall include volume up/down and balance left/right adjustment controls to improve intelligibility for those users requiring audio assistance</p> <p>The receiver shall include power, increment, decrement, CH/BAL, and menu/select buttons controls.</p> <p>The receiver power button shall incorporate a programmable LED status indicator.</p> <p>The receiver shall have an OLED display with diagonal size of 1.54" or better to display channels available, channel selected, signal level and battery level.</p> <p>Advanced programmable controls shall include device setting lock, sleep timeout, screen timeout, power button LED enable/disable, signal strength display type, and factory reset.</p> <p>The receiver shall use a rechargeable lithium-ion (Li-ion) camera-style, field-replaceable battery with a minimum capacity of 1200 mAh.</p> <p>The receiver shall support charging via dual contact drop-in chargers or the USB-C port.</p>	

### **Specification – “F”**

#### **06: ATEM Television Studio + AJa U-Tab HDMI**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
<b>A</b>	<b>ATEM Television Studio</b>		
1	Hardware Interface	USB, USB Type C	
2	Compatible Devices	Camera Compatible	
3	Type of cable or wire	HDMI, Auxiliary, USB Ports	
4	Includes AC Adapter	Yes	
<b>B</b>	<b>AJA U-TAP-HDMI USB 3.0 Powered HDMI Capture Device</b>		
5	System Connection	USB-B 3.0 / 3.1/3.2 Gen 1	
6	Video Inputs	2 x HDMI	
7	Input Audio Format	S/PDIF- 48 kHz / 16-Bit	
8	Embedded Audio	HDMI- 2-Channel	
9	Power I/O	1 x USB-B Output	
<b>C</b>	<b>ATEM Mini HDMI Live Stream Switcher</b>		

### **Specification – “G”**

#### **07: Digital Signal Processor**

S. N.	Item description	Minimum Parameters	Technical Compliance Yes/No
1	Inputs	12 electronically balanced Analog Inputs with Phantom Power or better	
2	Outputs	8 Analog outputs or better	
3	AEC Channels	12 channels of Acoustic Echo Cancellation (AEC) with Automatic Gain Control (AGC) and Noise Cancellation (NC) or better	
4	Digital Audio Bus	48-channel low latency fault tolerant digital audio bus or better	

5	Logic/Control I/O	12 control inputs, 6 logic outputs, GPIO or better	
6	THD	<0.01% or better	
7	Frequency Response	20Hz-20KHz or better	
8	CMRR	>72dB or better	
9	Control Software	Should support seamless Integration with Existing DSP's Software Ecosystem installed across High Courts, District Courts	

### **Specification – “H”**

#### **08: Microphones**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
	Gooseneck Microphones		
1	Audio frequency bandwidth	50 - 20K Hz or better	
2	Gooseneck Stem Length	50cm	
3	Mute Switch	Programmable to on/off, push-to-talk or push-to-mute, always On/off	
4	Immunity to RF Signals	Yes	
5	Microphone Capsule	Cardoid Pattern with a working distance of 30 to 60 cm	
6	Installation	Should support both functionality of Table Stand Base or permanently mounted with screws.	

### **Specification – “I”**

#### **09: Audio Rack**

S. No.	Item description	Minimum Parameters	Technical Compliance Yes/No
1	AV Rack	Powder coated – with customized color option to match the proposed furniture	
2	Rack Height	16U	
3	Rack Width	550mm or better	
4	Rack Depth	600mm or better	
5	Cooling	Ventilation slots; fan mounting options	
6	Load Capacity	50Kg or better per shelf	
7	Cable Management	Integrated cable tie points or pathways	
8	Door	Lockable Front & Rear Door	
9	Network Switch	8 Port L-2 Managed Network Switch for Local AV products LAN Connectivity	
10	PDU	8 Ports Metered Metering: Bank level Current, Voltage , PF and KWh Monitoring Outlet Switching: Yes USB 2.0 Type-A Port: Yes Ethernet Port: 10/100/1000M Metering Accuracy: 1% or better PON + COM Port : 1 x RJ-45 Input Frequency: 50-60 Hz.	

**Note:-**

1. The High Court of Madhya Pradesh shall have full rights to accept or reject any bid, without assigning any reason thereof.
2. The specifications mentioned in tender document are minimum and shall be finalized after the pre-bid meeting.
3. The Original equipment manufacturer may authorize more than one partner for participation in the bid.
4. The cost quoted should include the cost of software (if any) media, installation etc. at onsite.
5. The delivery and installation time is maximum 90 days to complete the project from date of Purchase Order / Work Order. In case of exceptional circumstances/ Act of God, the time extension may be given by the High Court of Madhya Pradesh on case to case basis.
6. **Tender to be submitted along with all requisite documents. If any of the required documents are not found along with the bid, then the same shall be summarily rejected.**
7. In case of Display Panel, the OEM should have Authorized Service Centre in State Capital / High Court Place for proper service support of Display Panels.



## Section – VIII

### Detail Break up of Cost\*

Name of the Bidder:

### Rate contract of Hardware items

S. No.	Item Description	Make and Model	Unit Price (In Rs.)	GST Applicable (In Rs.)	Sales /Service Tax (In Rs.) as applicable any other duties / taxes	Total Unit Price (All inclusive) with 05 years onsite warranty for items (In Rs.)	*Approx. number of Items*/Rate Contract	Total Cost (All inclusive) (In Rs.)
01	02	03	04	05	06	07	08	09 = 08x07
<b>01.</b>	<b>Sound Reinforcement System Components: For Court Rooms at High Court (Proposed Type-A) - Specification – “A”</b>							
1.01	Two Way Column Type Loudspeaker						196 /Set	
1.02	Multichannel Power Amplifier						49 /Set	
1.03	Ethernet Enabled Wall Mount Controller						49 /Set	
1.04	USB to Digital Audio Bridge over IP						49 /Set	
1.05	Switching & Control System						49 /Set	
<b>02.</b>	<b>Sound Reinforcement System Components: For Court Rooms (Proposed Type-B) - Specification – “B”</b>							
2.01	Two Way Low-Profile On-Wall Loudspeaker						1078	
2.02	Multichannel Power Amplifier						539	
2.03	Ethernet Enabled Wall Mount Controller						539	
2.04	USB to Digital Audio Bridge over IP						539	
<b>03.</b>	<b>Sound Reinforcement System Components: For Court Rooms (Proposed Type-C) - Specification – “C”</b>							
3.01	Self-Powered Wall Mount Speaker						844	
3.02	USB to Digital Audio Bridge over IP						844	
<b>04.</b>	<b>Video Monitors /LED Display Panels of Court Rooms (High Court)- Specification – “D”</b>							
4.01	55” Monitor /LED Display Panels						41	
4.02	65” Monitor /LED Display Panels						14	
4.03	75” Monitor /LED Display Panels						01	
4.04	85” Monitor/LED Display Panels						49	
4.05	95” Monitor /LED Display Panels						04	
4.06	Motorized Swivel Mount						01 /Set	
<b>05.</b>	<b>Assistive Listening System - Specification – “E”</b>						<b>10</b>	
<b>06.</b>	<b>ATEM Television Studio + AJa U-Tab HDMI - Specification – “F”</b>						<b>07</b>	
<b>07.</b>	<b>Digital Signal Processors - Specification – “G”</b>						<b>540</b>	
<b>08.</b>	<b>Microphones - Specification – “H”</b>						<b>540</b>	
<b>09.</b>	<b>Audio Racks - Specification – “I”</b>						<b>180</b>	
<b>10.</b>	<b>Installation &amp; Commissioning Charges</b>						<b>Lumpsum</b>	
	<b>Total Rs. in Words _____</b>							

**Note:** 1.The financial bids are to be submitted in online mode only and no hard sheet/ copy is to be submitted along with the bid. The project shall be decided on lumpsum basis.

2. The number of items of Type “A” & Type “B” may vary depending upon final requirement.

Seal and Signature of the Bidder

Page 48

**Form PQ-1**

**Techno-commercial Bid**

<b>S. No.</b>	<b>Description</b>	<b>Indicate also page number where clearly the document attached</b>
1.	Name, address & telephone number of the agency/firm	
2.	Name, designation, address & telephone number of authorized person	
3.	Please specify as to whether Tenderer is sole Proprietor/Partnership Firm/Private or Limited Company.	
4.	Name, address & telephone number of Directors/Partners, Fax No., e-mail address.	
5.	Copy of PAN Card, Copy of previous 03 Financial Year's Income tax return <b>(ITR) Year 2022-2023, 2023-2024 &amp; 2024-2025.</b>	
6.	Valid ISO 9001 Certificate of quoted products (Please attach copy)	
7.	GST Registration No. (Please attach copy).	
8.	Latest GST Return (Please attach copy of latest month GST return certificate).	
9.	Experience Certificates /details of last 05 years in providing supply and installation of IT Equipment's/ Audio Video System Setup etc.in Central Government /State Government /Public Sector Undertakings /Autonomous Bodies /Reputed Private organizations. (Please attach copy)	
10.	Online Bid Security /Earnest Money Deposit a) Amount of Rs. .... b) Reference No. c) Date of issue	
11.	Online Tender Fees details a) Amount of Rs. .... b) Reference No. c) Date of issue	
12.	Product Brochure / catalogues of quoted product items along with Manufacturer Authorization Form (MAF)	

**Form PQ-2**  
**BIDDER'S ANNUAL TURNOVER**

\_\_\_\_\_ (Location)  
\_\_\_\_\_ (Date)

From (Name & Address of the Auditor)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ To,  
The Registrar General,  
High Court of Madhya Pradesh,  
Jabalpur

Ref. \_\_\_\_\_

Dear Sir/Madam,

We hereby certify that the average annual turnover of M/s. \_\_\_\_\_  
(name of the bidder) is not less than **Rs.40 Crore** during the last three financial years.

S. No.	Firm	Year 2022-2023	Year 2023-2024	Year 2024-2025
		Amount	Amount	Amount
1.				

Yours Sincerely,

***(Signature of Authorized Auditor)***

***Name of the Authorized Auditor***

***Seal:***

**Form PQ-3**  
**SIMILAR WORK EXPERIENCE**

\_\_\_\_\_ (Location)  
\_\_\_\_\_ (Date)

From (Name & Address of the Bidder)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ To,  
The Registrar General,  
High Court of Madhya Pradesh,  
Jabalpur.

**Subject:** - Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh.

**Ref.** \_\_\_\_\_

1. We hereby declare and confirm that we, \_\_\_\_\_ (Name of the Bidder), having registered office at \_\_\_\_\_ (address) have successfully executed following projects. We are providing the details below (Note add rows as required).

S. No.	Name of the client organization	Purchase Order (P.O) No. & Date of issue of P.O.	Project Value	Brief Scope of Work	Whether the copies of the purchase orders / contracts from the client as required, is attached?	
					Yes/No	Pg. No. on the Proposal

**Yours Sincerely,**

**(Signature of Authorized Signatory)**

**Name and Designation of the Authorized Signatory**

**Name and address of the Bidder Company**

**Seal**

**Note-Please clearly indicate the page numbers with documents.**

### **Annexure - 1**

Clause by Clause compliance statement on the technical specification as prescribed in the section VII of this document.

<b>Sl. No.</b>	<b>Clause no.</b>	<b>Complied / Not complied</b>

**Annexure – 2**

**DEVIATION STATEMENT FORMAT**

The Bidder is required to provide the details of the deviations of the tender clauses **(in any section of the tender)** in the following format.

Sl. No.	Section No.	Clause No	Clause Description	Non Compliance/ Partial Compliance	Remarks

### **Annexure - 3**

#### **FORMAT FOR BIDDERS TO SUBMIT PRE-BID QUERY**

The Bidder has to submit their queries **(in any section of the tender/ technical speculations)** in the following format only.

<b>S. No.</b>	<b>Section No. / Clause No / Specification/ Page No.</b>	<b>Content of RFP Requiring Clarification</b>	<b>Query of the bidder / remarks of the bidder, if any</b>
<b>1.</b>			
<b>2.</b>			
<b>cont..</b>			
<b>n....</b>			

**Note -**

- Submit the pre-bid query as mentioned in the above format till 06.01.2026 through e-mail regithcjbptd@mp.gov.in. The pre-bid query received after dated 06.01.2026 may not be considered.
- The duly hard copy submission of pre-bid query as per the above format to be submitted along with the soft copy.
- In case any e-mail of the vendor received in the junk/spam mail shall not be considered for reply by the High Court.

**PART – I**

**BID FORM (1 sheet)**

**Tender No.**

**Date**

**To,**

**The Registrar General  
High Court of M.P.,  
Jabalpur (M.P.)**

**Respected Sir,**

1. Having examined the conditions of contract and specifications in the tender document and annexure, the receipt of which is hereby duly acknowledged, we, undersigned, offer to “Supply & Installation of Sound Reinforcement System, Display Panels along with all accessories at the High Court of Madhya Pradesh and District Courts in the State of Madhya Pradesh” for the sum shown in the schedule of prices attached herewith and made part of this Bid.
2. We undertake, if our Bid is accepted, to complete delivery of all the items specified in the contract within the delivery schedule specified in the tender.
3. If our Bid is accepted, we will obtain the unconditional performance guarantees of a Nationalized/Scheduled Bank for a sum **05%** of the purchase / contract value.
4. We agree to abide by this Bid for a period of **180 days** from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until a formal Purchase Order of Contract is prepared and a contract is executed accordingly, this Bid together with your written acceptance thereof in your notification of award shall constitute a contract binding on us, subject to terms and conditions mentioned in the tender document.



6. Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.
7. We understand that you are not bound to accept the lowest or any bid, you may receive and you may reject any bid without assigning reason therefore and you may vary, amend or alter any terms and conditions of the Tender Document at the time of execution of the Contract.

**Dated this ..... day of ..... 2026**

**Name and Signature** .....

**In the capacity of** .....

**Duly authorized to sign the bid  
for and on behalf of** .....

**Witness** .....

**Address** .....

**Signature**

## **CERTIFICATES**

### ***WE CERTIFY THAT-***

1. We will not LEAK / DISCLOSE any information of High Court of Madhya Pradesh to any other institutions/organizations, bodies and also in the market on the rates less than the prices quoted by us to the High Court.
2. The rate of TAXES / DUTIES mentioned in the tender is in accordance with the provisions of the rules in all respects and the same is payable to the Authorities.
3. The material / items and software offered shall be of the best quality strictly in accordance with the specifications and particulars as detailed in the tender.
4. The information furnished by us in the tender are true and correct to the best of our knowledge and belief.
5. We have read and understood the rules, regulations, terms and conditions of tender as applicable from time to time and agree to abide by them.
6. We will meet 100% Confidentiality and Integrity of High Court Database and software.

***Authorized Signatory***

*(Seal of the Company)*