

**Sansad Television**  
**3<sup>rd</sup> Floor Talkatora Stadium Annexe Building**  
**New Delhi-110001**

No. SANSAD/Eqpt. & Tech 6(x)/2021

17 Aug 2021

**TENDER NOTICE FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF**  
**32 INPUT AUDIO DIGITAL MIXER FOR**  
**SANSAD TELEVISION**

Sealed tenders are invited under two bid system viz. **Technical Bid and Financial Bid** from manufacturers/authorized distributors/dealers, hereinafter referred to as agency for supply, installation, testing and commissioning of **32 Input Audio Digital Mixer** for Sansad Television as per Bill of Material given in Annexure I. The equipment will be installed at Parliament Library Building, New Delhi.

2. **ELIGIBILITY CONDITIONS**

- (a) The Agency should have **Permanent Account Number (PAN)** under the Income Tax Act,1961. A copy of the PAN cards should be enclosed with the technical bid.
- (b) The Agency should have an annual turnover of Rs.1 (one) crore or above during each of the financial years 2017-18, 2018-19 and 2019-20. **Attested copies of Income Tax Returns and Balance Sheets for these financial years should be enclosed with the technical bid.**
- (c) The agency should have successfully supplied similar items to at least one TV Channel/Production House/Organization during the last two financial years. Documentary proof in this regard along with completion certificate may be given with the technical bid.
- (d) If the Agency is a consortium, a copy of MOU between the partners should be submitted with the technical bid.
- (e) The Agency should have a Letter of Authorization from Original Equipment Manufacturer (OEM) to quote against the tender and for providing after-sales support. A copy of the Letter of Authorisation should be enclosed with technical bid.
- (f) The Agency should not have been blacklisted by any government organization/PSU in the past. **A certificate to this effect should be enclosed with the technical bid.**

3. **The agency should keep the following points in view while submitting its bid:-**

- 3.1. Items supplied should be of standard make and model. The model of the equipment should not be nearing obsolescence.

- 3.2 The OEM shall provide comprehensive after-sales services in India such as repairs, maintenance, supply of spare parts etc. and should be able to provide such services at short notice, irrespective of the presence of its after-sales service centres in India, at least for a period of five years. OEM shall be required to furnish a certificate to this effect.
- 3.3. Software applications/firmware supplied should be of the latest version. Upgrades to the same shall be provided during the warranty period without any financial implications.
- 3.4. Agency shall quote only for the intended product and shall not quote for an alternate product.
- 3.5. The Agency shall impart hands-on training to the professionals of Sansad TV.

4. **SPECIFICATIONS AND BILL OF MATERIAL OF 32 INPUT AUDIO MIXER IS AS PER DETAILS MENTIONED BELOW:-**

Sr. No.	Specifications and Bill of Material of 32 Input Audio Mixer				
<b>1</b>	<b>Bill of Material</b>				
	<table border="1"> <thead> <tr> <th data-bbox="310 852 954 888">Item</th> <th data-bbox="954 852 1429 888">Quantity</th> </tr> </thead> <tbody> <tr> <td data-bbox="310 888 954 924"><b>32 Input Audio Mixer</b></td> <td data-bbox="954 888 1429 924"><b>1</b></td> </tr> </tbody> </table>	Item	Quantity	<b>32 Input Audio Mixer</b>	<b>1</b>
Item	Quantity				
<b>32 Input Audio Mixer</b>	<b>1</b>				
<b>2</b>	<b>GENERAL</b>				
2.1	The offered equipment should be from an internationally reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters. The bidder should essentially submit the list of the broadcasters to whom the quoted model has been supplied. The tenders without the proper user list shall liable to be rejected out rightly.				
2.2	The product offered against these specifications should be highly reliable, user friendly & convenient to operate for optimum utilization of all the features.				
2.3	The offered console should be a professional broadcast quality product suitable for 24x7 operations.				
2.4	The offered console may either be single table mountable composite unit havng I/Os, DSP and control surface or table mountable control surface (containing faders, switches, & level display etc.) with a separate 19" rack mountable main electronics portion/core (containing I/Os, DSP etc.).				
<b>3</b>	<b>ESSENTIAL REQUIREMENTS</b>				
3.1	The control surface of the offered Audio Mixer should be compact. & ergonomically designed for a complex live broadcast environment providing complete operational ease to the operator. Layout of modules/ parts/ components in the console should permit easy access to wiring, inspection, repairs/ servicing.				
3.2	The console should be totally self contained unit and should not require aid of any external computer /laptop for normal operations. Various operational features like channel routing, mix-minus, phantom On/Off, EQ, Gain etc. shall essentially be available on the console surface.				
3.3	The offered mixer should have excellent frequency response, low Total Harmonic Distortion and high S / N ratio.				
3.4	The Audio Mixer should be able to constantly monitor the status of all major hardware and software systems and provide the information for troubleshooting and fault finding.				

3.5	The control surface as well as main processing core electronics (in case of separate DSP & I/Os) should have auto switchable redundant power supplies.	
3.6	The control surface of the offered Audio Mixer should have at least 24 numbers of faders. 16 faders should be optimized for input channel and remaining faders will be used as group, VCA faders and master faders.	
3.7	The offered console should be able to accept microphones, analogue line and AES/ EBU digital audio inputs	
3.8	The offered Audio Mixer should have following Inputs/Outputs I/Os):	
	(i)	32 mono Mic/Line inputs on XLR with switchable 48V phantom power
	(ii)	8 Digital AES X 2 inputs with SRC on XLR
	(iii)	8 Digital AES X 1 outputs on XLR
	(iv)	8 GPIO,
	(v)	1 Headphones output
	(vi)	64 channel MADI port(s) for multi-track I/O
3.9	Inputs/Outputs of the offered Audio Mixer should be scalable so that number of Inputs/Outputs can be expanded whenever required in future. The mixer is therefore required to have suitable interface to expand the pool of inputs and outputs that may be mixed on the surface.	
3.1	The offered mixer should have capability to map all the internal or external sources to any cross point.	
3.11	The offered mixer should have panning facility to pan input to output busses.	
3.12	The offered mixer should have pre fader input gain control.	
3.13	The Console should be DSP based and all the processing in the console shall be performed in the digital domain. Console should have at least 40-bit floating point digital signal processing for optimum performance at all times so as to provide crystal clear audio at all the time.	
3.14	The mixer should have four band parametric equalizers. It should also have Low-cut/ High Pass and High-cut/ Low Pass filters. The offered mixer should be capable of Dynamics processing including Gate, Expander, Compressor and Limiter. The mixer should be capable of displaying curves during adjustment of parameters like equalizers (EQ), dynamics processing etc.	
3.15	The mixer should have busses for at least 8 group, 16 Aux including mix-minus and 4 stereo Master. It should also have Pre Fader Listen, Talkback, Control Room and Studio Monitoring facility.	
3.16	The mixer should have Pre Fader Listen (PFL) facility. The Mixer should have monitoring facility of Master, Aux, Group, Mix-Minus and PFL busses on control room speakers, studio speakers, and PFL speakers. Monitoring on Headphones should also be available.	

<b>Technical Specifications for DIGITAL AUDIO CONSOLE 32</b>	
Number of Input Channels	32 Analog,6 Digital inputs, AES/EBU INPUT
Number of output Channels	24,4 FX returns,6 Digital oputput
Mix Routing	24 Mutli functional buses,LR,MONO,8buses to matrix,8 VCA FADERS
Frequency Response - Local Mic input to Line output	+0/-1dB, 20Hz-20kHz
AES/EBU In to AES/EBU Out	+0/-0.2dB, 20Hz-20kHz
THD+Noise	22Hz-22kHz
THD & Noise - Local Mic In (min gain) to Local Line Out	<0.003% @ 1kHz
THD & Noise - Local Mic In (max gain) to Local Line Out	<0.020% @ 1kHz
Mic Input E.I.N	<-125dBu (150Ω source), 22Hz-22kHz bandwidth, unweighted
Residual Noise	-95dBu - Local line output; no inputs routed, Mix fader @0dB
CMRR	80dB @ 1kHz Local Mic Input
Sampling Frequency	48kHz
Latency - Local Mic Input to Local Line output	< 2ms @48kHz
AES/EBU Input Sample Rate	32-108kHz (with SRC enabled)
DSP Resolution	40-bit floating point
Internal Clock Accuracy	< +/- 50ppm
Internal Clock Jitter	< +/- 5ns
External Sync	BNC Wordclock
Input & Output Levels - Mic Inputs	+23dBu max
Input & Output Levels - Line Outputs	+22dBu max
Input & Output Levels - Nominal Operating Level	0dBu (-18dBFS)
Input & Output Impedances - Mic Inputs	2k7Ω
Input & Output Impedances - All other analogue Inputs	>10kΩ
Input & Output Impedances - Line Outputs	<75Ω
Input & Output Impedances - AES/EBU Outputs	110Ω
Oscillator	20Hz to 20kHz/Pink/White Noise, variable level
Channel HP filter	20Hz-600Hz, 18dB per octave
Channel LP filter	1kHz-20kHz, 18dB per octave
EQ (Inputs and Bus Outputs) - HF	20Hz-20kHz, +/-18dB, Q= 0,3-8.7 or shelving
EQ (Inputs and Bus Outputs) - Hi-Mid	20Hz-20kHz, +/-18dB, Q=0.3-8.7
EQ (Inputs and Bus Outputs) - Lo-Mid	20Hz-20kHz, +/-18dB, Q=0.3-8.7
EQ (Inputs and Bus Outputs) - LF	20Hz-20kHz, +/-18dB, Q= 0.3-8.7 or shelving
Metering	Internal 11-segment LED bargraphs plus 4-segment gain reduction meters for all inputs and Outputs. Peak hold variable from 0-2s.
Mains Voltage Operating Range	90-264V, 47-63Hz, autoranging
Internal Mass Storage	4GB Compact Flash Card
Operating Temperature	0°C – 45°C (32°F – 113°F)
Relative Humidity	0% – 90%, non-condensing Ta=40°C (104°F)

## 5. **SUBMISSION OF BIDS**

- 5.1 The Agency should submit its bid in two parts, in separate covers, one containing the **Technical Bid** and the other the **Financial Bid**, superscribed accordingly. The sealed Technical and Financial bids should be placed inside a large sealed cover superscribing “**Tender for Supply, Installation, Testing and Commissioning of 32 Input Audio Digital Mixer for SANSAD TV**”.

The tender should be addressed to Director (Sansad TV), **Sansad Television, 3<sup>rd</sup> floor, Talkatora Stadium Annexe Building, New Delhi-110001** and may be dropped in the drop box by **5:00 p.m. on or before 09 Sep, 2021** or may be sent by courier/registered/speed post so as to reach Sansad TV by **5:00 p.m. on 09 Sep, 2021**.

- 5.2 The **Technical Bid** should be given in proforma attached as **Annexure- I** and should be accompanied by earnest money deposit of Rs. 1 (one) lakh in the form of a demand draft drawn in favour of **Drawing & Disbursing Officer, Rajya Sabha Television** payable at **New Delhi** on which no interest will be paid. Earnest money of an Agency will be forfeited if it refuses to take up the job or fails to execute the order within the specified period or if the information given by it is found to be false; or if it withdraws the bid during the validity period of the bid. Earnest money of the unsuccessful bidders will be returned after completion of the tender process. Earnest money of the successful bidder will be returned after satisfactory completion of supply, installation, testing and commissioning of 32 Input Audio Mixer.
- 5.3 **Financial Bid** should be given in the proforma attached as **Annexure-II**. Rate quoted should include delivery of equipment on site.
- 5.4 There should not be over-writing or correction or cutting in the bids and each page of the Technical bid as well as financial bid should be signed by an authorized representative of the Agency.
- 5.5 Firm rates/charges should be quoted in Indian Rupees both in figures and words and should be valid for **180 days** from the date of opening of the bids. Rates and charges should be inclusive of GST and any other incidental charges.

## 6. **PRE-BID MEETING**

A pre-bid meeting will be held at 4 p.m. on **23 Aug, 2021** in the office of Sansad TV, Talkatora Stadium Annexe Building, New Delhi-110001 where the intending bidders may seek any clarifications and visit Sansad TV office to have first-hand information about the

requirements of Sansad TV. The intending bidders are requested to make it convenient to attend the pre-bid meeting so that there may not be any communication gap and they are aware of the requirements of Sansad TV.

7. **OPENING OF BIDS**

Technical Bids will be opened at 4:00 p.m. on **10 Sep, 2021** at Sansad TV office, Talkatora Stadium Annexure Building, New Delhi 110001 in the presence of the bidders or representatives thereof, if any. Financial Bids of only such bidders will be opened who are found eligible in Technical Bid. Time and date of opening of the Financial Bids will be informed to the Agencies which are found eligible in the Technical Bid.

8. **TERMS OF PAYMENT**

8.1 90% payment of the total order value will be released after satisfactory completion of supply, installation, testing and commissioning of 32 Input Audio Digital Mixer.

8.2 Sansad TV will withhold 10% of the total value of the contract as performance security which will be released after a period of one year from the date of satisfactory commissioning of the equipment.

9. **REJECTION OF BIDS**

Canvassing by the bidders in any form, unsolicited letters and post tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected. Sansad TV reserves the right to reject any or all of the bids without assigning any reason therefor.

10. **PENALTY CLAUSE**

Time is the essence of the project and the agency should stick to the prescribed time schedule. In case of late delivery, installation, testing or commissioning of the equipment the agency shall be liable to pay penalty @ 0.5% of the order value per week of delay or part thereof, up to a maximum amount of 5% of order value, after which the order is liable to be cancelled.

11. **INDEMNITY**

The successful bidder shall at all times indemnify Sansad TV towards any loss/damage caused or any claim raised against Sansad TV by any party/third party consequent to this contract. The successful bidder shall be liable, in accordance with the Indian Laws and Regulations for any accident or damage incurred or claims raised against Sansad TV during the period of delivery, installation, testing and commissioning of the equipment. The successful bidder shall also provide all insurance, including third-party insurance as may be necessary to cover the risk. No extra payment would be made to the successful bidder on this account.

12. **ARBITRATION**

All the disputes and differences arising out or in any way touching or concerning the bid shall be referred to the sole arbitrator appointed by the Sansad TV. The award of such arbitration shall be final and binding on the parties. The arbitration proceedings shall be held at New Delhi.

13. **JURISDICTION**

The Courts at New Delhi will have the sole and exclusive territorial jurisdiction over any dispute or difference in connection with this tender.

**Director (Sansad TV)**

**TENDER NOTICE FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF  
32 INPUT AUDIO DIGITAL MIXER FOR SANSAD TV**

**TECHNICAL BID DOCUMENT**

Sl. No.	Description
1.	Name of the Tender Firm/Agency/Company :
2.	Postal Address of the Tenderer Firm/Agency/Company:
3.	Details of the contact person of the Tendering Firm/Agency/Company:  (a) Name of the Authorized Person:  (b) Tele. No. with STD (O) (FAX) :  (c) Mobile No :  (d) E-mail :



	(e) Website :
4.	Name of Proprietor/Partners/Directors of the firm/agency:
5.	Registration and incorporation particulars of firm : (Please attach copies of the relevant documents/certificates)
6.	GST registration details :  (Please attach copies of the relevant documents/certificates)
7.	Permanent Account Number from Income Tax Department (PAN/Income Tax Circle/TIN) :  (Please attach copies of the relevant documents/certificates)



10.	<p>Details of the Earnest Money Deposit :</p> <p>(a) Name of the Bank :</p> <p>(b) Demand Draft No. :</p> <p>(c) Value of the Demand Draft :</p> <p>(d) Demand Draft drawn in favour of :</p>
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**Certificate**

**It is certified :**

- (i) **That I/we have gone through and understood the requirements given in the Tender Notice No. SANSAD/Eqpt. & Tech 6(x)/2021 dated 17 Aug, 2021 and rates have been quoted accordingly.**
- (ii) **That the terms and conditions given in the tender notice are acceptable to me/us.**
- (iii) **That the information furnished by me/us is true and correct.**
- (iv) **That the agency has not been blacklisted by any Government organization/department.**

Dated: \_\_\_\_\_

Name and Address of the firm

**Signature of the Authorized Signatory & Seal of the firm.**

**Annexure-II****TENDER NOTICE FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF  
32 INPUT AUDIO DIGITAL MIXER FOR SANSAD TELEVISION****FINANCIAL BID DOCUMENT**

(1) Sl. No	(2) Item Description	(3) Rate in Rs. (per unit) (excluding GST)	(4) Qty	(5) Total amount in Rs. (Col. 3 x (Col. 4)
1.	32 Input Audio Digital Mixer		01	

**It is undertaken that :**

- (i) The above rates are including applicable taxes.
- (ii) The above-quoted rates shall remain valid for 180 days from the date of opening of the financial bid.

Dated: \_\_\_\_\_

Name and Address of the firm

**Signature of the Authorised Signatory and Seal of the Firm**