



# भारतीय प्रबंध संस्थान इन्दौर

प्रबंध शिखर, राऊ-पीथमपुर रोड, इन्दौर - 453 556 (म.प्र.), भारत

**INDIAN INSTITUTE OF MANAGEMENT INDORE**

Prabandh Shikhar, Rau-Pithampur Road, Indore - 453 556 (M.P.), India

IIMI/Project/2021/ 2415

Dated: October 21, 2021

## Addendum: 1

**Tender Reference No.** : IIMI/Project/16/2021/119 File no. 462

**Tender Title** : Supply, Installation, Testing & Commissioning of Audio-Visual system at Hiranandani campus of IIM Indore .

The following corrections is hereby made in the aforesaid tender, accordingly last date for submission of tender has also been extended as details given below:

- LAST DATE AND TIME OF CLOSING OF UPLOADING/  
ONLINE SUBMISSION OF TENDER: UPTO 11:00 AM ON OCTOBER 25, 2021
- DATE & TIME OF ONLINE OPENING OF TECHNICAL BID: 11:30 AM ON OCTOBER 25, 2021


Clause/ Ref No.	Item	Description written as in tender	Description Shall be read as
BOQ Item No. 1	Column Loudspea ker	SITC of Constant Beam width Line Array Column Loudspeaker must have Drivers Eight 50 mm(2 in) Full-Range Frequency Range (-10dB) 80 Hz - 20 kHz Coverage Angle Vertical 20° (1.5 kHz - 16 kHz, ±10°) Horizontal 150° (ave, 1 kHz - 4 kHz, ±20°) Sensitivity 93 dB (speech mode, 2 kHz - 14 kHz)89 dB (music mode, 300 Hz - 18 kHz) Impedance 8 ohms Power Rating 150W Maximum SPL (1m) Speech mode: 115 dB cont ave (121 peak) Music mode: 111 dB cont ave (117 peak) Transformer Taps 60W, 30W, 15W, (7.5W at 70V only), and 8Ω thru, via switch Enclosure Fiberglass reinforced ABS cabinet, painted aluminum grille etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM AurtORIZATION as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/ Bose/QSC/ Community Audio	SITC of Constant Beam width Line Array Column Loudspeaker must have Drivers Eight to Twelve 50 mm(2 in) Full-Range 50 mm(2 in) Full-Range Frequency Range (-10dB) 100 Hz - 16 kHz Coverage Angle Vertical 20° (1.5 kHz - 16 kHz, ±10°) Horizontal 140° (ave, 1 kHz - 4 kHz, ±20°) Sensitivity 93 dB (speech mode, 2 kHz - 14 kHz)89 dB (music mode, 300 Hz - 18 kHz) Impedance 8 ohms Power Rating 150W or more SPL (1m) Speech mode: 115 dB cont ave (121 peak) Music mode: 111 dB cont ave (117 peak) Transformer Taps 60W, 30W, 15W, (7.5W at 70V only), and 8Ω thru, via switch Enclosure Aluminum or Fiberglass reinforced ABS cabinet, painted aluminum grille etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/Bose/QSC /Community Audio is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender

BOQ Item No. 2	Column Loudspeaker	SITC of Line Array Column with Asymmetrical Vertical Cove , Components: Four 130 mm (5 in) LF drivers ,Sixteen 25 mm (1 in) HF drivers ,Frequency Range (-10 dB) : 60 Hz - 20 kHz ,Coverage: Vertical (selectable via switch) Narrow Mode: 25° (2 kHz - 16 kHz) (±10°) ,Broad Mode: 45° (750 Hz - 16 kHz) (±10°) ,Horizontal 150° (500 Hz - 8 kHz, ±20°) ,Sensitivity (2.83V@ 1m) :98 dB , Power Capacity:1400 W peak ,Max SPL :131 peak , UV, moisture Rated. etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/ Bose/QSC/ Community Audio	SITC of Line Array Column with Asymmetrical Vertical Cove , Components: Four 130 mm (5 in) LF drivers ,Sixteen 25 mm (1 in) HF drivers ,Frequency Range (-10 dB) : 60 Hz - 20 kHz ,Coverage: Vertical (selectable via switch) Narrow Mode: 25° (2 kHz - 16 kHz) (±10°) ,Broad Mode: 45° (750 Hz - 16 kHz) (±10°) ,Horizontal 150° (500 Hz - 8 kHz, ±20°) ,Sensitivity (2.83V@ 1m) :98 dB , Power Rating :1400 W peak ,Max SPL :131 peak , UV, moisture Rated. etc. all complete & as per the direction of Engineer-in Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/Bose/QSC/ Community Audio is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender
BOQ Item No. 3	Power Amplifier	SITC of Two-channel, 300W @ 4Ω Analog Power Amplifier, 70V/100V , 300 W x 2 channels at 4 and 8 ohms/100V/70V or better, Voltage Gain :34 dB , Frequency Response 20 Hz - 20 kHz (at 1 W ),Signal-to-Noise Ratio Analog Input : 104 dB ,Damping Factor :> 1000 , Should have 3 nos of RJ45 port 1 for data and 2 for Digital audio transmission in redundancy concept, Should have Integrated 8 band EQ , Limiter , Crossover and Delay. etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / Camco/Powersoft / Fidelity/ Bose/QSC/ Community Audio	SITC of Two-channel, 300W @ 4Ω Analog Power Amplifier, 70V/100V , 300 W x 2 channels at 4 and 8 ohms/100V/70V or better, Voltage Gain :34 dB , Frequency Response 20 Hz - 20 kHz (at 1 W ),Signal-to-Noise Ratio Analog Input : 104 dB ,Damping Factor :> 1000 , Should have 3 nos of RJ45 port 1 for data and 2 for Digital audio transmission in redundancy concept, Should have Integrated 8 band EQ , Limiter , Crossover and Delay. etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / Camco/Powersoft / Fidelity/Bose/QSC/ Community Audio is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender

BOQ Item No. 4	Power Amplifier	SITC of Four-channel, 300W @ 4Ω Analog Power Amplifier, 70V/100V , 300 W x 4 channels at 4 and 8 ohms/100V/70V or better, Voltage Gain :34 dB , Frequency Response 20 Hz - 20 kHz (at 1 W ),Signal-to-Noise Ratio Analog Input : 104 dB ,Damping Factor :> 1000 , Should have 3 nos of RJ45 port 1 for data and 2 for Digital audio transmission in redundancy concept, Should have Integrated 8 band EQ , Limiter , Crossover and Delay. etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / Camco/ Powersoft / Fidelity/ Bose/QSC/ Community Audio	SITC of Four-channel, 300W @ 4Ω Analog Power Amplifier, 70V/100V , 300 W x 4 channels at 4 and 8 ohms/100V/70V or better, Voltage Gain :34 dB , Frequency Response 20 Hz - 20 kHz (at 1 W ),Signal-to-Noise Ratio Analog Input : 104 dB ,Damping Factor :> 1000 , Should have 3 nos of RJ45 port 1 for data and 2 for Digital audio transmission in redundancy concept, Should have Integrated 8 band EQ , Limiter , Crossover and Delay. etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / Camco/Powersoft / Fidelity/Bose/QSC/ Community Audio is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender
BOQ Item No. 8	Ceiling Loudspeaker	SITC of Two-Way 6.5" Coaxial Ceiling Loudspeaker Frequency Range (-10dB) 62 Hz - 20 kHz Power Rating IEC System Long-Term Ratings (low-Z direct): 100 Watts Continuous Program Power Frequency Response (±3 dB) 96 Hz - 15 kHz Sensitivity 91 dB (1kHz - 16 kHz) Coverage Angle 110° conical Directivity Factor (Q) 7.8 Directivity Index (DI) 8.2 dB Maximum SPL (1m) 108 dB (low-impedance, 116 dB peak) 106 dB (top 70V/100V tap) Impedance 8 ohms (in direct/bypass setting) Crossover Network 12 dB/oct (2nd order) low-pass to LF driver, 12 dB/oct (2nd order) high-pass to HF driver etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/ Bose/Martin Audio	SITC of Two-Way 6.5" Coaxial Ceiling Loudspeaker Frequency Range (-10dB) 62 Hz - 20 kHz Power Rating IEC System Long-Term Ratings (low-Z direct): 100 Watts Continuous Program Power Frequency Response (±3 dB) 96 Hz - 15 kHz Sensitivity 91 dB (1kHz - 16 kHz) Coverage Angle 110° conical Directivity Factor (Q) 7.8 Directivity Index (DI) 8.2 dB Maximum SPL (1m) 108 dB (low-impedance, 116 dB peak) 106 dB (top 70V/100V tap) Impedance 8 all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Approved Make - Harman / D&B / L Accustics / Fidelity/Bose/Matri n Audio is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender

BOQ Item No. 9	Digital Signal Processor	SITC of 12 Analog Inputs Per Input: Signal Present, CLIP, 48V (Input only) Other: COM, STAT, ERR, PWR Analog Inputs: 12 electronically balanced on Phoenix Combicon removable screw connectors Mic/Line Inputs: Nominal gain 0dB, electronically switchable up to +48dB, in +6dB steps Input Impedance: 3.5kΩ Maximum Input Level: +20dBu with 0dB input gain, +8dBu with 12dB gain CMRR: >75dB at 1KHz Input Noise (E.I.N.): <- 128dBu typical with 150Ω source Phantom Power: 48V nominal, selectable per input A/D Latency: 37/Fs [0.77ms@48k] Analog Outputs: 8 electronically balanced on Phoenix/ Combicon removable screw connectors Maximum Output Level: +19dBu Frequency Response: 20Hz-20KHz (+0.5dB/- 1dB) THD: <- 75dB etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Aurtorization as per format given in tender at the time of tendering. Approved Make - Harman /sysmatrix / Bi Amp / XTA/Extron	SITC of 12 Analog Inputs 8 Output (AEC Optional) Per Input: Signal Present, CLIP, 48V (Input only) Other: COM, STAT, ERR, PWR Analog Inputs: 12 electronically balanced on Phoenix Combicon removable screw connectors Mic/Line Inputs: Nominal gain 0dB, electronically switchable up to +48dB, in +6dB steps Input Impedance: 3.5Kω or better Maximum Input Level: +20dBu with 0dB input gain, +8dBu with 12dB gain CMRR: >75dB at 1KHz Input Noise (E.I.N.): <- 128dBu typical with 150Ω source Phantom Power: 48V nominal, selectable per input A/D Latency: 37/Fs [0.77ms@48k] or better Analog Outputs: 8 electronically balanced on Phoenix/ Combicon removable screw connectors Maximum Output Level: +19dBu or better Frequency Response: 20Hz-20KHz or better (+0.5dB/- 1dB) THD: <-75dB etc or better. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Approved Make - Harman /sysmatrix / Bi Amp / XTA/Bose/Extron is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender
BOQ Item No. 10	USB Bridge for VC	SITC of BLU-USB allows audio from a PC/Mac to be directly placed onto the audio bus, enabling easy implementation of softphones for conferencing systems or audio playback directly to/from a computer.-2 x 2 plug 'n' play operation -48kHz 8 x 8 operation -48/96kHz Eliminates USB Distance Limitations etc. all complete & as per the direction of Engineer-in-Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Make - Harman /sysmatrix / Bi Amp / XTA/Extron	SITC of USB allows audio from a PC/Mac to be directly placed onto the audio bus, enabling easy implementation of softphones for conferencing systems or audio playback directly to/from a computer.-2 x 2 plug 'n' play operation -48kHz 8 x 8 operation -48/96kHz Eliminates USB Distance Limitations etc. all complete & as per the direction of Engineer-in Charge. Bidder must submitted OEM Authorization as per format given in tender at the time of tendering. Make - Harman /sysmatrix / Bi Amp / XTA /Bose/ Extron Is hereby added subjected the product should meet out the minimum technical specifications laid down in the tender

All other condition remain unchanged.

  
 Chief Engineer 21/10/2021