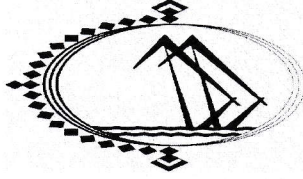


DEENDAYAL PORT AUTHORITY
(ERSTWHILE DEENDAYAL PORT TRUST)

Telephone (02836) 270209/
(02836) 270342
MOBILE 9825234436
WEBSITE:
www.deendayalport.gov.in



Office of the
Superintending (Elect.),
P&C Building, Ground
Floor,
New Kandla – Kutch.
Pin Code: 370 210.
Email : xenedpt@gmail.com



No. EL/AC/EOI/Sound System/

Dated : 05.02.2024

EXPRESSION OF INTEREST

(This Notice is issued only to elicit Expression of Interest from the parties interested in the work and does not constitute any binding commitment from the Deendayal Port Authority to proceed with the work or invite any or all the parties in the subsequent bidding process. The Open Tenders will be issued subsequently)

To,

**SUB :- EOI FOR UPGRADATION OF AUDIO SYSTEMS OF S.V.P. HALL AT
GOPALPURI KACHCHH.**

Sir,

You are requested to submit Expression of Interest for "EOI for Upgradation of Audio system of SVP Hall at Gopalpuri – Kachchh".

The Expression of Interest should reach to this office on or before 15-02-24 or soft copy of EOI also acceptable through e-mail id xenedpt@gmail.com & deepak.hazra@deendayalport.gov.in

Yours faithfully,

Executive Engineer (Elect.)
Deendayal Port Authority

SCHEDULE-B					
ELECTRICAL DIVISION					
<u>UPGRADATION OF AUDIO SYSTEMS OF S.V.P. HALL AT GOPALPURI KACHCHH.</u>					
S/N	Description	Qty.	Unit	Rate	Amount
1	LINE ARRAY SPEAKER SYSTEM 12" two-way line-array system with 1 LF. 3 Annular Ring Diaphragm HF on Constant Curvature waveguide. Frequency range: 57 Hz-20 kHz.SPL: 95 dB/130 db max. Power output :800 watts continuous. Nominal dispersion :100 degree x 15 degree. Passive or bi-amplified operation.	09	Nos.		
2	ARRAY FRAME : Supply of frame for the suspension of Line Array Speakers from the Ceiling.	03	Nos.		
3	SUBWOOFER SPEAKER SYSTEM 18" Portable base reflex Subwoofer System, Power Capacity. : 800 watt Continuous. SPL : 31Hz -220 Hz; 95 dB .	04	Nos.		
4	STAGE MONITOR SPEAKER SYSTEM : 12" Two-way Portable Monitor or Front of House Speaker System. Power Capacity : 400 watt Continuous. 12" Differential Drive Woofer and a 1.5 " Annular Polymer Diaphragm Compression Driver. Frequency response : 60Hz-20kHz.SPL: 94 dB. Dispersion (Coverage) : 70° x 70° .	02	Nos.		
5	SIDE MONITOR SPEAKER SYSTEM : 400W, 2-Way PA speaker system comprises of a high performance 15" LF speaker	02	Nos.		

S/N	Description	Qty.	Unit	Rate	Amount
6	Audio Splitter <ul style="list-style-type: none"> • 10 balanced Inputs & Outputs. • 4 modes of operation: Stereo Mix - 2 X (4 IN / Mix Out + 4 Individual Channel out). • Mono Mix - 8 IN / 2 Mix Out + 8 Individual Channel out. • Stereo Split - 2 IN / 10 Out. • Mono Split - 1 IN / 10 Out. • ¼" Stereo jack inputs on each channel with level control. • 15dB gain on each channel. • Self illuminated mute switches on each channel. • Clip LED for all inputs. • Individual Outputs: Four ¼" Stereo Jacks & Four XLR. • Balanced inputs/ outputs & master control for MIX A & B • Individual Outputs: Four ¼" Stereo Jacks & Four XLR. • Balanced inputs/ outputs & master control for MIX A & B 	01	No.		
7	Audio Crossover Input Impedance - Unbalance 10K Ω /Balance 20K Ω Output level/Impedance - Unbalance : 30 Ω / Balance 60 Ω S/N ratio - >100 dB Crossover frequency range - 44 Hz -9.3KHz THD - 0.05% Low Cut - 25Hz, -3 dB	01	No.		

S/N	Description	Qty.	Unit	Rate	Amount
8	Power Amplifier – 3200 watts. <ul style="list-style-type: none"> • Dual Channel direct coupled amplifier • 3200 watts rated output (1600+1600 Watts) 	02	Nos.		
9	Power Amplifier 6000 Watt <ul style="list-style-type: none"> • Dual Channel power amplifier • 3000 + 3000 watts 	01	No.		
10	Power Amplifier 2400 Watt Dual Channel PA Power amplifier 1200 + 1200 watt	01	No.		
11	Supply, Installation, Testing Commissioning of Audio Mixer : 16 channel mixing console (with Effect) of 10 mono inputs & 4 stereo inputs; 24-bit DSP effects for 99 presets ; Frequency response : 20Hz - 20kHz; Total harmonic distortion(THD-N) of 0.03%; 6 single-control dynamic compressors; Phantom power : +48V; Internal power supply; Power consumption : 50W.	01	No.		
12	Supply, Installation, Testing Commissioning of Wireless Handheld Microphone : Frequency response (TX): 80Hz - 14kHz; Bandwidth: 24MHz; Total harmonic distortion (THD) : < 0.9%; Signal to noise ratio : > 103 dB; Pattern : Cardioid; Microphone type: dynamic, Rack Mountable.	01	No.		
13	Supply, Installation, Testing Commissioning of Wireless Lapel Microphone : Frequency response: 50Hz - 16kHz; Bandwidth: 24MHz; Total harmonic distortion (THD) : < 0.9%; Signal to noise ratio : > 103 dB; Pattern : Omni-directional; Microphone type: condenser, Rack Mountable.	01	No.		
14	Dual UHF Wireless conference microphone system designed for superior vocals & speech reproduction	01	No.		

S/N	Description	Qty.	Unit	Rate	Amount
15	8 KVA Servo Controller	01	No.		
16	VOCAL MICROPHONE : Professional dynamic Corded microphone for lead & backing vocals on stage. Polar Pattern : Cardioid. Frequency Response: 40-16000 Hz Nominal Impedance: 350 Ohms	06	Nos.		
17	MICROPHONE STANDS: Microphone stand with boom. Loaded nylon tripod base. Height : 202 cm. Spread : 64 cm.	06	Nos.		
18	TABLE MICROPHONE STANDS (small mic stand): Table/floor stand. Height: 350-530mm. Base dia : 150 mm .	04	Nos.		
19	Mic cable with XLR (screened 10 Mtr.)	10	Nos.		
20	Speakon Connector	50	Nos.		
21	Shielded system Cable (Screened 1.5 mtr.)	25	Nos.		
22	Digital Snake cable with connector drum box for stage solution (18 core)	01	No.		
23	Speaker cable for above system (4 core 99.9 tinned copper screened round cable 2.5 sq.mm.	200	Mtrs.		
24	Speaker cable for above system (2 core 99.9 tinned copper screened cable 2.5 sq.mm.)	100	Mtrs.		
25	Wall Mount Bracket	02	Nos.		
26	Chain Pulley Block (1 T, 12 Mtr.) for speaker	03	Nos.		
27	Powder coated cold rolled MS Floor mount rack with 4 caster wheels and inbuilt power strip and cooling fan, front glass door with lock and key and back metal door for PA system.	01	No.		
28	Complete installation material	01	No.		
29	Installation, Testing and commissioning of PA system including laying of audio and speaker cable charges with 6 months annual maintenance contract	01	No.		

**Seal & Signature
Contractor**


**Executive Engineer (E)
Deendayal Port Authority**



Installation of new Sound System in SVP Hall, Gopalpuri.

GENERAL INSTRUCTIONS

The system is required for SVP Hall, Gopalpuri:

Seating capacity = 1394 (Ground (624)+ Balcony (770))

Use = Stage Lectures, Seminars, cultural functions etc, and for films screening

Layout = Drawing of auditorium is furnished in the tender documents.

SALIENT POINTS :

1. Sound Control adjacent to stage (side) - for all stage events.
2. All eqpt (viz. Amp's, Mixers etc.) to be in 2 nos. portable trolley cabinet with lock and wheels.
3. Suitable Speakers networks needed - separate for Stage Programmes and Film.
4. Live (Audio) Recording Facility required (For Stage events).

INSPECTION - ACCEPTANCE CRITERIA :

REPORT TO BE SUBMITTED AFTER INSTALLATION.

1. Speech Transmission Index (STI/RaSTI) Analysis will be required using CAD mapping of auditorium—showing coverage of sound in entire auditorium.
2. STI (Speech Transmission Index) Spectrogram graph considering noise level of 55 dB.
3. SPL uniform (Sound Pressure Level) Spectrogram @ +/- 3 dB at 95 dB. of sound in entire auditorium.
4. D/R (direct filled and reverb filled) Ratio coverage Map —showing coverage of sound in entire auditorium.

SPECIFICATION FOR MODERNIZATION OF AUDIO SYSTEMS OF SVP HALL, GOPALPURI

PRE-QUALIFICATION CRITERIA

Initial Screening

The Bidder should have past experience in implementing similar work. The OEM and Authorized Integrator must possess the requisite experience, organizational strength and capabilities in providing the services necessary to meet the requirements as described in the document. Keeping in view the complexity & volume of the work involved, the following criteria are prescribed as pre-qualification criteria for bidder interested in undertaking the project. The OEM and Authorized Integrator must possess the technical knowhow and the financial strength that would be required for successful implementation of the project and support services sought by Department for the entire period of the contract.

For this purpose, bidder should qualify the following Eligibility Criteria:

1. The Bidder should be reputed OEM of Sound Reinforcement Systems components like Speakers, Power Amplifiers, Audio processor, Wireless Microphones, Mixers, Corded Microphones, Video Projector, etc having well established infrastructure in India with their own sales and service center in India or their such Authorized System Integrator duly authorized by the OEM for the exclusive purpose of participation in this tender. Proof of being manufacturer for each individual of the following items below to be submitted with Technical bid.
 - a. Speakers
 - b. Amplifiers
 - c. Audio Processor
 - d. Wireless Microphone
 - e. Mixer
 - f. Corded Microphones
 - g. Video Projector
2. If the bidder is not an OEM for each of the items listed below, then the Bidders should have specific Authorization from OEM of
 - a. Speakers
 - b. Amplifiers
 - c. Audio Processor
 - d. Wireless Microphone
 - e. Mixer
 - f. Corded Microphones
 - g. Video Projectorfor exclusive purpose of Participation in this tender. Proof for each individual items mentioned above to be submitted with Technical bid.

3. Based upon the auditorium's detailed drawing furnished along-with the tender, the bidder shall submit 3D Mapping design of his offered Auditorium Sound Systems using generic Electro-Acoustic simulation software – containing :
- a.) Speech Transmission Index(STI/RaSTI) Analysis using CAD Mapping of the room.
 - b.) Articulation Loss.
 - c.) Total SPL Spectrogram... dB (+-3 dB)
 - d.) Loudspeaker Overlap coverage pattern
 - e.) D/R (direct field and reverb field) Ratio
- to confirm the technical performance of the systems proposed.

This report shall be on OEM/bidder's letterhead and shall be submitted in technical BID.

4. The bidder must have executed **minimum one work of Audio and Video Projection System in Auditorium in last 3 years**. Proof (PO/WO + Work Completion Cert) to be submitted with Technical bid.
5. If the intending bidder is Authorized System Integrator then he shall submit **undertaking from the Manufacturer in original to ensure that they will provide required technical as well as sales & service support for warranty and subsequent annual maintenance period of 1 year**.

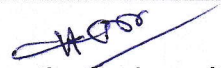
Seal & Signature of Contractor


Executive Engineer (Elect.)
Deendayal Port Authority



APPROVED MAKE LIST		
S/N	Description	Recommended Makes
1	LINE ARRAY SPEAKER SYSTEM	JBL / L Acoustics/Renkus Heinz /Bose/Ahuja
2	ARRAY FRAME	JBL / L Acoustics/Renkus Heinz /Bose/Ahuja
3	SUBWOOFER SPEAKER SYSTEM	JBL / L Acoustics/Renkus Heinz /Bose/Ahuja
4	STAGE MONITOR SPEAKER SYSTEM	JBL / L Acoustics/Renkus Heinz /Bose/Ahuja
6	Audio Splitter	JBL / L Acoustics/Renkus Heinz / Bose/Ahuja/Sennheiser/AKG/shure
7	Audio Crossover	JBL / L Acoustics/Renkus Heinz /Bose/Ahuja
8	Power Amplifier – 3200 watts.	Crown / Bose /Lap Gruppen /L Acoustics/ Ahuja
9	Power Amplifier 6000 Watt	Crown / Bose /Lap Gruppen /L Acoustics/ Ahuja
10	Power Amplifier 2400 Watt	Crown / Bose /Lap Gruppen /L Acoustics/ Ahuja
11	Audio Mixer	Soundcraft/Allen & Heath/Midas/Ahuja
12	Wireless Handheld Microphone	Sennheiser/ AKG / Shure/ Studio-master
13	Wireless Lapel Microphone	Sennheiser/ AKG / Shure/ Studio-master
14	Dual UHF Wireless conference microphone system	Sennheiser/ AKG / Shure/ Studio-master
15	8 KVA Servo Controller	Servokon/Servomate/Servomax/Bluebird
16	VOCAL MICROPHONE	Sennheiser/ AKG / Shure/ Studio-master
17	MICROPHONE STANDS	Bespco/K&M/Ahuja
18	TABLE MICROPHONE STANDS (small mic stand):	Bespco/K&M/Ahuja
19	Mic cable with XLR (screened 10 Mtr.)	Falcon/Klotz/Beldon
20	Speakon Connector	Falcon/Klotz/Beldon /Nutrik
21	Shielded system Cable (Screened 1.5 mtr.)	Falcon/Klotz/Beldon
22	Digital Snake cable with connector drum box for stage solution (18 core)	Falcon/Klotz/Beldon
23	Speaker cable for above system (4 core 99.9 tinned copper screened round cable 2.5 sq.mm.)	Chrod/QED//Audio Quest Rocket
24	Speaker cable for above system (2 core 99.9 tinned copper screened cable 2.5 sq.mm.)	Chrod/QED//Audio Quest Rocket
25	Wall Mount Bracket	Hari/Engg/Coral/Custom
26	Chain Pulley Block (1 T, 12 Mtr.) for speaker	
27	Powder coated cold rolled MS Floor mount rack with 4 caster wheels.	Hari/Engg/Coral/Custom

Seal & Signature
Contractor


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