

**PARADIP PORT AUTHORITY**  
**ELECTRICAL & MECHANICAL DEPARTMENT**

No. EM/PED/TECH-37/25/1057

Date: -13/01/2026

Name of the Work: **“Procurement of Light & Sound system for Jayadev Sadan Auditorium of PPA.”**

Sir,

Please find enclosed herewith the scope of work and bill of quantity which is to be executed on emergent basis as per the following terms and conditions. You are requested to visit the site and assess the exact nature of work and submit your offer to the undersigned latest by **16:00 hrs. on dtd.19/01/2026** in an enclosed envelope/send through the mail. Email id- **[rabindranath.sahoo@paradipport.gov.in](mailto:rabindranath.sahoo@paradipport.gov.in)**. Contact no-8917296889.

**TERMS & CONDITIONS AND SCOPE OF WORK**

- 1) The work must be executed as per the agreed date and time of commencement as well as completion. Failure to commence and/or complete the work as per the agreed schedule will attract a penalty @ 1% of the total offered price for a delay of 1 day/ or part thereof subject to a maximum of 5% of the total offered price beyond which the contract will be terminated.
- 2) The work must be executed observing all the statutory requirements and the price offered must be inclusive of all taxes(**except GST**), duties, fees, cess, transport, insurance and all other incidental charges and must be a firm price. The GST shall be mentioned separately.
- 3) The work must be planned in consultation with the Engineer-in-Charge (EIC) so as to avoid any interruption of Port Operation/ maintenance. No idle charge is admissible.
- 4) The Contractor shall indemnify Paradip Port Authority against all claims including third party claims arising out of any matter whatsoever in connection with the execution of this work for which the contractor is solely responsible.
- 5) The contractor shall commence the work immediately after receipt of the work order & supply all the materials within **15 days** to the full satisfaction of the EIC.
- 6) The Contractor shall be responsible for observing all safety norms during the execution of the work and shall clear the site after completion of the work.
- 7) All the manpower and T&P required to execute the above work shall be under the scope of Contractor.
- 8) On satisfactory execution of the work, the contractor shall submit the bills in triplicate to the EIC. Payment shall be made within 30 days from the date of submission of the bills in full shape. Tax deduction at source shall be made as per the prevailing rules of Paradip port Authority.
- 9) 90% of contract amount shall be released for payment after successful supply of the materials in complete shape. Balance 10% shall be withheld as Performance Security Deposit till completion of 01 year Warranty period.

Executive Engineer,  
Port Electrical Division – III

## **SCOPE OF WORK**

**Name of the Work:** “Procurement of Light & Sound system for Jayadev Sadan Auditorium of PPA.”

The Contractor shall Supply the sound & light system materials as per the specification mentioned below.

### **1) AMPLIFIER:**

The Contractor shall supply Toroidal Power Amplifier: Class-H, 2 x 2500W or more with Gorilla Limiters & PSL Preamps, No. of Channels 2, Damping Factor > 400 at 8ohms Enclosure Layered Steel Enclosure with Dedicated Heat Transfer Pathways Power at 4 Ohms (Stereo Mode, All channels driven) 2500W or more, Signal to Noise Ratio (1 kHz, 8 Ohms) - 105 dB Knobs Controlled Increment Metal Knobs Power at 8 Ohms (Stereo Mode, All channels driven) 1300W THD < 0.02% THD / 4ohms and 8 ohms Finish Metallic Matte Finish Bridged Power at 8 Ohms, 4100W, Controls Sensitivity Selection - High Pass Cut Off - Stereo, Bridge, Parallel Switch" Mounting System 19" Standard Rack Mount Ears Bridged Power at 4 Ohms 6400W., as per BOQ.

### **2) AMPLIFIER:**

The Contractor shall Supply Toroidal Power Amplifier: Class-H, 2 x 1650W or better with Gorilla Limiters & PSL Preamps, No. of Channels 2 Damping Factor > 400 at 8ohms Enclosure, Layered Steel Enclosure with Dedicated Heat Transfer Pathways, Power at 4 Ohms (Stereo Mode, All channels driven) 1650W, Signal to Noise Ratio (1 kHz, 8 Ohms) - 105 dB Knobs, Controlled Increment Metal Knobs, Power at 8 Ohms (Stereo Mode, All channels driven) 900W, THD < 0.02% THD / 4ohms and 8 ohms, Finish Metallic Matte Finish, Bridged Power at 8 Ohms 3000W, Controls Sensitivity Selection - High Pass Cut Off - Stereo, Bridge, Parallel Switch "Mounting System 19" Standard Rack Mount Ears Bridged Power at 4 Ohms 4000W as per BOQ.

### **3) MIXER:**

The Contractor shall Supply 32 Frame Compact Analogue Mixing Desk with Dual FX, Number of Input Channels 28 Mono + 2 Stereo Channels, Media Player with USB / BT input, Number of Output Channels Master L+R XLR Output, Zone L+R XLR Output (Sub), USB Interface Out, Recording Out (2Track), TRS Aux, Moni-r, FX Mute & Headphone Outputs, Oliver FX Dual FX Engine, Recording 2-Track Recording In/Out, USB Audio Interface Connectivity, Auxes Balanced XLR Stereo Aux Out, One TRS Aux Output, Frequency Response 20Hz - 30KHz

0.5dB, Max. Input Level Mic +24dBu, Line +24dBu, Other +20dBu, Max. Output Level XLR +26dBu, TRS +20dBu, Max Input Power 40 Watts, Faders 60mm as per BOQ.

**4) VOCAL MICROPHONE:**

The Contractor shall Supply Cardioid Dynamic Vocal Microphone with 15' XLR-XLR Cable, Black, 5.00 x 10.00 x 3.50. Tailored microphone cartridge design specifically for clarity in the standard frequency range of speech Cardioid polar pattern picks up audio from the source while rejecting unwanted noise, Connectivity Technology XLR, Connector Type XLR, Special Feature Cardioid polar pattern, Compatible Devices Amplifier, Speaker Polar Pattern Unidirectional, Impedance Unit of Measure 600 Ohm, Microphone Form Factor Handheld, Power Source Corded Electric. Hardware Platform PC, Number of Channels 1, Frequency Range 2050-2700 MHz, Frequency Response 15000 Hz as per BOQ.

**5) INSTRUMENT MICROPHONE:**

The Contractor shall Supply Cardioid Condenser Instrument Microphone, Connectivity Technology XLR, Connector Type XLR, Polar Pattern Unidirectional, Impedance Unit of Measure 150 Ohm, Power Source Corded Electric, Number of Channels 1, Frequency Range 2050-2700 MHz, Frequency Response 15000 Hz as per BOQ.

**6) LAPEL MICROPHONE:**

The Contractor shall Supply Lapel Cordless Microphone System, Batteries 2 AA batteries required. (Included), Connector USB, Power Source Battery Powered as per BOQ.

**7) HANGING MICROPHONE:**

The Contractor shall Supply Overhead Condenser XLR Unidirectional Microphone. Connectivity Technology XLR, Connector Type XLR, Special Feature Portable, Compatible Devices Personal Computer, Radio, Smartphone, Polar Pattern Unidirectional, Audio Sensitivity 33 Decibels, Impedance Unit of Measure 50 Ohm, Microphone Form Factor condenser, Power Source Corded Electric, Signal-to-Noise Ratio 35 dB, Hardware Platform Smartphone, Number of Channels 1, Frequency Range 2050-2700 mhz, Frequency Response 20 KHz as per BOQ.

**8) BOUNDARY MICROPHONE:**

The Contractor shall Supply Boundary Studio Microphone is a surface-mount condenser microphone with an Omni-directional polar pattern. Frequency Response 20 Hz - 20 kHz, Polar Pattern Omni-directional, Sensitivity -39 dBV/Pa, Impedance 600  $\Omega$ , Max. SPL 127 dB, 1 kHz at 1% T.H.D as per BOQ.

**9) SPEAKER CABLE:**

The Contractor shall Supply 1.5 Sq.mm x 2 Core ATC Copper Conductor Stranded, Core Twisted in Circular For, Colour Coded Blue / white outer Jacketed with Matt finish Super flexible Special PVC with Sequential Marking on Every meter as per BOQ.

**10) The Contractor shall supply the following Light materials as mentioned below as per BOQ**

- a) Par 64 wide Beam Light,
- b) Par 62 Narrow Beam Light,
- c) Par 64 wide Beam Body,
- d) Par 62 Narrow Beam Body,
- e) Plano Convex 1000 watt spot light with body,
- f) Fresnel Light,
- g) Profile Light 750 watt 36 degree,

- h) Profile Light 750 watt 25 degree,
- i) Profile Light 750 watt 60 degree,
- j) Filament follow light 5000 watt as per BOQ.

**11) The Contractor shall supply 01 no. Avolite operating light board having 48 Channel including compatible power pack.**

**12) Warranty Period:-**

The Warranty period of the Supply material shall be of 01 year. The offered price shall be inclusive of warranty maintenance which includes, supply of all materials / spares. No separate payment for any spares supplied during the warranty maintenance period will be made by PPA. Warranty Maintenance includes repairs / replacement of all defective components, or any unit as a whole. Failure in the above warranty obligations attract to forfeiture of retained amount like PSD with PPA.

**SIGNATURE OF THE BIDDER**

## BILL OF QUANTITY

Name of the Work: **“Procurement of Light & Sound system for Jayadev Sadan Auditorium of PPA.”**

Sl. No	Item of Works	Unit	Qty.	Rate in Indian Rupees		Amount in Indian Rupees	
				In figures	In words	In figures	In words
	A. SOUND SYSTEM						
1	<b><u>AMPLIFIER:-</u></b> Supply of Toroidal Power Amplifier: Class-H, 2 x 2500W or more with Gorilla Limiters & PSL Preamps, No. of Channels 2,Dampning Factor > 400 at 8ohms Enclosure Layered Steel Enclosure with Dedicated Heat Transfer Pathways Power at 4 Ohms (Stereo Mode, All channels driven)2500W or more, Signal to Noise Ratio (1 kHz, 8 Ohms) - 105 dB Knobs Controlled Increment Metal Knobs Power at 8 Ohms (Stereo Mode, All channels driven)1300W THD< 0.02% THD / 4ohms and 8 ohms Finish Metallic Matte Finish Bridged Power at 8 Ohms,4100W,Controls Sensitivity Selection - High Pass Cut Off - Stereo, Bridge, Parallel Switch "Mounting System 19" Standard Rack Mount Ears Bridged Power at 4 Ohms 6400W. <b>Preferably Make: - <i>BRITISH ACOUSTICS/L ACOUSTICS/MARTIN AUDIO/AUDAC.</i></b>	Nos.	1.00				
2	<b><u>AMPLIFIER :-</u></b> Supply of Toroidal Power Amplifier: Class-H, 2 x 1650W or better with Gorilla Limiters & PSL Preamps, No. of Channels 2 Damping Factor > 400 at 8ohms Enclosure, Layered Steel Enclosure with Dedicated Heat Transfer Pathways, Power at 4 Ohms (Stereo Mode, All channels driven)1650W,Signal to Noise Ratio (1 kHz, 8 Ohms)- 105 dB Knobs, Controlled Increment Metal Knobs, Power at 8 Ohms (Stereo Mode, All channels driven)900W,THD< 0.02% THD / 4ohms and 8 ohms, Finish Metallic Matte Finish, Bridged Power at 8 Ohms 3000W,Controls Sensitivity Selection - High Pass Cut Off -Stereo, Bridge, Parallel Switch "Mounting System 19" Standard Rack Mount Ears Bridged Power at 4 Ohms 4000W. <b>Preferably Make: - <i>BRITISH ACOUSTICS/L ACOUSTICS/MARTIN AUDIO /AUDAC.</i></b>	Nos.	1.00				

3	<b>MIXER :-</b> Supply of 32 Frame Compact Analogue Mixing Desk with Dual FX, Number of Input Channels 28 Mono + 2 Stereo Channels, Media Player with USB / BT input, Number of Output Channels Master L+R XLR Output, Zone L+R XLR Output (Sub), USB Intefrace Out, Recording Out (2Track), TRS Aux, Moni-r, FX Mute & Headphone Outputs, Oliver FX Dual FX Engine, Recording 2-Track Recording In/Out, USB Audio Interface Connectivity, Auxes Balanced XLR Setero Aux Out, One TRS Aux Output, Frequency Response 20Hz - 30KHz 0.5dB, Max. Input Level Mic +24dBu, Line +24dBu, Other +20dBu, Max. Output Level XLR +26dBu, TRS +20dBu, Max Input Power 40 Watts, Faders 60mm. <b>Preferably Make: - <i>BRITISH ACOUSTICS/L ACOUSTICS/MARTIN AUDIO/XILICA.</i></b>	Nos.	1.00				
4	<b>VOCAL MICROPHONE:-</b> Supply of Cardioid Dynamic Vocal Microphone with 15' XLR-XLR Cable, Black, 5.00 x 10.00 x 3.50. Tailored microphone cartridge design specifically for clarity in the standard frequency range of speech Cardioid polar pattern picks up audio from the source while rejecting unwanted noise, Connectivity Technology XLR, Connector Type XLR, Special Feature Cardioid polar pattern, Compatible Devices Amplifier, Speaker Polar Pattern Unidirectional, Impedance Unit of Measure 600 Ohm, Microphone Form Factor Handheld, Power Source Corded Electric. Hardware Platform PC, Number of Channels 1, Frequency Range 2050-2700 MHz, Frequency Response 15000 Hz. <b>Preferably Make:- <i>SHURE/OSL/SENNHEISER.</i></b>	Nos.	6.00				
5	<b>INSTRUMENT MICROPHONE :-</b> Supply of Cardioid Condenser Instrument Microphone, Connectivity Technology XLR ,Connector Type XLR, Polar Pattern Unidirectional, Impedance Unit of Measure 150 Ohm, Power Source Corded Electric ,Number of Channels 1,Frequency Range 2050-2700 MHz, Frequency Response 15000 Hz. <b>Preferably Make:- <i>SHURE/OSL/SENNHEISER.</i></b>	Nos.	6.00				
6	<b>LAPEL MICROPHONE:-</b> Supply of Lapel Cordless Microphone System, Batteries 2 AA batteries required. (Included), Connector USB, Power Source Battery Powered. <b>Preferably Make:- <i>SHURE/OSL/SENNHEISER.</i></b>	Nos.	4.00				

7	<b>HANGING MICROPONE:-</b> Supply of Overhead Condenser XLR Unidirectional Microphone. Connectivity Technology XLR, Connector Type XLR, Special Feature Portable, Compatible Devices Personal Computer, Radio, Smartphone, Polar Pattern Unidirectional, Audio Sensitivity 33 Decibels, Impedance Unit of Measure 50 Ohm, Microphone Form Factor condenser, Power Source Corded Electric, Signal-to-Noise Ratio 35 dB, Hardware Platform Smartphone, Number of Channels 1, Frequency Range 2050-2700 mhz, Frequency Response 20 KHz. <b>Preferably Make:- SHURE/OSL/SENNHEISER.</b>	Nos.	3.00				
8	<b>BOUNDARY MICROPHONE:-</b> Supply of Boundary Studio Microphone is a surface-mount condensor microphone with an omni-directional polar pattern. Frequency Response 20 Hz - 20 kHz, Polar Pattern Omni-directional, Sensitivity -39 dBV/Pa, Impedance 600 Ω, Max. SPL 127 dB, 1 kHz at 1% T.H.D. <b>Preferably Make:- SHURE/OSL/SENNHEISER.</b>	Nos.	4.00				
9	<b>SPEAKER CABLE:-</b> Supply of 1.5 Sq.mm x 2 Core ATC Copper Conductor Stranded, Core Twisted in Circular For, Colour Coded Blue / white outer Jacketed with Matt finish Super flexible Special PVC with Sequential Marking on Every meter. <b>Preferably Make:- JAD/BELDEN/SOMMER.</b>	Mtrs.	300				
<b>B. LIGHT SYSTEM</b>							
1	Par 64 wide Beam Light. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / OSRAM / PHILLIPS.</b>	Nos.	8.00				
2	Par 62 Narrow Beam Light. <b>Preferably Make:- LEKSA / LYTMEN / MERKRICH / OSRAM / PHILLIPS.</b>	Nos.	8.00				
3	Par 64 wide Beam Body <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / OSRAM / PHILLIPS.</b>	Nos.	6.00				
4	Par 62 Narrow Beam Body <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / OSRAM / PHILLIPS.</b>	Nos.	6.00				
5	Plano Convex 1000 watt spot light with body. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	4.00				
6	Freznal Light. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	6.00				

7	Profile Light 750 watt 36 degree. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	4.00				
8	Profile Light 750 watt 25 degree. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	4.00				
9	Profile Light 750 watt 60 degree. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	4.00				
10	Filament follow light 5000 watt. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	1.00				
11	Avolite operating light board 48 Channel. <b>Preferably Make: - LEKSA / LYTMEN / MERKRICH / MODERN LIGHT.</b>	Nos.	1.00				

Total: Rs. \_\_\_\_\_

GST: ----- Rs. -----

Grand Total : Rs. -----

(In words Rupees \_\_\_\_\_).

**Note:** *1. Payment shall be made only for the actual quantity executed.*

*2. Submission in any other format may result in cancellation of the offer. All the pages of the BOQ must be signed by the Bidder.*

*We hereby confirm that the above quoted price is inclusive of all taxes, duties, cess etc. and all other incidentals like transport, insurance etc excluding GST and a firm landing price at Paradip Port Trust.*

**Signature of the Bidder**

**Date:**

(FOR OFFICIAL USE ONLY)

No. of Corrections: \_\_\_\_\_

No. of Erasures: \_\_\_\_\_

No. of Overwriting: \_\_\_\_\_

No. of Insertions: \_\_\_\_\_