

भारत सरकार/GOVERNMENT OF INDIA
अंतरिक्ष विभाग/DEPARTMENT OF SPACE
विक्रम साराभाई अंतरिक्ष केंद्र/VIKRAM SARABHAI SPACE CENTRE
तिरुवनंतपुरम/THIRUVANANTHAPURAM – 695 022

EXPRESSION OF INTEREST / अभिरुचि की अभिव्यक्ति

Ref. No. VSSC/EOI/NASD/2024

Date : 04.12.2024

डॉ. श्रीनिवासन श्रोताकक्ष में एवी सिस्टम के संवर्धन के लिए अभिरुचि की अभिव्यक्ति
Expression of Interest for Augmentation of AV System in Dr. Srinivasan Auditorium

इच्छुक पार्टी अपनी अभिरुचि की अभिव्यक्ति मोहरबंद लिफाफे में हमारे संदर्भ सं. VSSC/EOI/NASD/2024 का उद्धरण करते हुए निम्नलिखित पते पर दिनांक 26.12.2024 को या उससे पहले प्रस्तुत करें।

Interested parties may furnish their Expression of Interest in Sealed Envelope quoting our Reference No. VSSC/EOI/NASD/2024 on or before 26.12.2024] to the following address :-

वरि. क्रय एवं भंडार अधिकारी / Sr. Purchase & Stores Officer,
क्रय यूनिट I, मुख्य क्रय / Purchase Unit- I, Main Purchase
आर एफ एफ क्षेत्र, इसरो पीओ/ RFF Area, ISRO PO,
तिरुवनंतपुरम/ Thiruvananthapuram- 695022
फोन/Ph: 0471-256 3139 / 3523

नोट/Note :- मेक इन इंडिया नीति के अनुसार केवल श्रेणी-I तथा श्रेणी-II के स्थानीय आपूर्तिकार इस बोली में भाग लेने हेतु पात्र हैं। / Only Class-I and Class-II Local suppliers as per Make in India policy are eligible to participate in the bid.

पूछताछ / सहायता के लिए कृपया संपर्क करें : 0471 2563139 / 3523, ई-मेल :
: spso_psd@vssc.gov.in / ps02_main_pur@vssc.gov.in

For any queries / assistance, Please Contact : 0471 2563139 / 2563523. E-mail
: spso_psd@vssc.gov.in / ps02_main_pur@vssc.gov.in

हस्ताक्षरित/Sd/-

वरि.प्रधान, क्रय एवं भंडार/ Sr. Head, Purchase & Stores

Design, Supply, Installation, Testing, and Commissioning of Audio,
Video, and Electrical Systems
for Dr. Srinivasan Auditorium at VSSC

INVITATION FOR EXPRESSION OF INTEREST

NOVEMBER 2024

VIKRAM SARABHAI SPACE CENTRE
INDIAN SPACE RESEARCH ORGANISATION
THIRUVANANTHAPURAM -695022

1.0 INTRODUCTION

The Vikram Sarabhai Space Centre (VSSC) serves as the lead Centre of the Indian Space Research Organisation (ISRO) under the Department of Space (DOS), Government of India. The Centre is dedicated to research, development, and integration activities concerning launch vehicles and associated technologies. We are inviting Expressions of Interest (EOI) from well-established and experienced firms for the design, supply, and installation of state-of-the-art audio-video systems, advanced stage lighting, stage acoustics, and video conferencing solutions for the Dr. Srinivasan Auditorium. This auditorium serves as a vital hub for various scientific conferences, employee training programs, and events organized at the VSSC and ISRO levels. It also hosts cultural programs and key functions, occasionally attended by dignitaries and high-profile guests.

The Dr Srinivasan Auditorium, with a seating capacity of 465, plays a pivotal role in fostering innovation, collaboration, and strategic decision-making, both within our organization and in engagement with external stakeholders. It supports an environment of growth, creativity, and seamless communication, making it an integral part of our institution's infrastructure.

2.0 OBJECTIVE

The primary objective of this Expressions of Interest is to identify qualified system integrators to upgrade and enhance our existing auditorium, aligning it with the evolving needs of our workforce, clients, and stakeholders. This augmentation aims to create a technologically advanced, versatile, and aesthetically refined space that reflects our unwavering commitment to excellence.

3.0 SCOPE OF WORK

The scope of work includes the design, supply, installation, commissioning, and maintenance of state-of-the-art audio-visual equipment, video walls, displays, provision for professional cameras integration and video conferencing systems (point to point and multi-point capability) to enable seamless communication and presentations in the auditorium. It also involves upgrading the seating arrangements, carrying out minor civil works, relocating the control room, installing control consoles, laying carpets, enhancing stage flooring, improving stage lighting and acoustics, and elevating the overall ambiance to create a comfortable and conducive environment for conferences, meetings, seminars, and various events. Additionally, integrating eco-friendly and energy-efficient solutions in both design and technology is essential to meet our sustainability objectives.

Audio System:

The scope of work for the auditorium's audio system involves the design, supply and installation of a state-of-the-art solution that delivers exceptional sound quality and intelligibility for various events, including cultural performances, seminars, live interactions, and conferences. The system will feature a combination of wired and wireless microphones, along with an advanced audio mixer equipped with modern noise and echo cancellation technology to ensure clear, uninterrupted audio and superior speech reinforcement for both local and remote participants. Amplifiers with appropriate power ratings will be installed to maintain a consistent sound pressure level at every seat, ensuring uniform sound distribution throughout the venue.

The speaker system will be designed for wide coverage and will include bass speakers for enhanced low-frequency response, front-fill speakers for clear audio in the front seating areas, and monitor speakers for the stage, AV control room, and green rooms. This system is optimized for high intelligibility and effective communication for both local and far-end participants. The audio system will cater to a range of functions, and the prospective bidder will be required to submit simulated acoustic drawings to demonstrate sound coverage, power distribution, and intelligibility. The overall goal is to provide an audio system that ensures superior sound reinforcement, clarity, and an immersive experience for all events.

Video System:

The video system is expected to be designed for HD, FHD, and 4K resolution signal transmission with variable frame rates and a chroma sampling of 4:4:4 for projection, streaming, and conferencing purposes. Components to be considered include transceivers, video mixers, video switchers, video streamers, network devices, cameras, video walls (Approx 32 feet * 12 feet P2.00 or less), and reinforcement display systems. Interface with Internet cloud-based collaboration systems and in-house collaboration systems are essential. Provision for live (audio and video) recording, smart boards and lecture capture, and streaming in line with infrastructure requirements should be provided.

Control System:

All active devices must be controllable via Ethernet. GUI interfaces should be customizable for ease of use. Control application shall be accessed through a wireless device and a PC which is connected to an isolated Wi-Fi system in the auditorium.

Note: Audio, video and control system shall be provided with adequate hot swappable redundancy.

Electrical systems

Stage Lighting: Comprehensive stage lighting should be provided to support a wide range of activities, including scientific discussions, interviews, inaugurations, cultural events, and video conferences planned for the venue. Emergency lighting shall be provided in the stage.

Control for all the lighting (Dimmable and adjustable (Tuneable) colour correction temperature (CCT) for difference scene setting at different colour temperature) shall be provided through the same wireless device and switches.

UPS systems: kVA as per load requirements (audio, video, and stage lighting), considering a 3kVA load for existing LED lights and 20% future expansion. Redundancy shall be inbuilt (parallel redundant/modular). The UPS shall be online and modular. Battery backup shall be half an hour at full load, and battery type shall be SMF

Civil works

The bidder shall execute civil works for the auditorium, including the installation of stage acoustics for optimal sound quality and durable stage flooring. Auditorium carpeting must be fire-retardant and sound-absorbing. A safety-compliant ramp should be constructed for accessibility. The AV control room requires proper insulation and setup for secure equipment housing, along with a custom-designed AV console and control table for efficient operation.

4.0 ELIGIBILITY CRITERIA

To qualify for the bidding, the Bidder must meet the following requirements:

- a) The Bidder should possess prior experience in Design, supply, erection, installation, interfacing, and commissioning of Audio and Video systems.
- b) The Bidder should have a track record of supply, installation and commissioning of similar systems in India with intelligent control

The bidder should have successfully executed/ completed at least:

- Single order with minimum value of Rs. 560.00 lakhs (OR) Two Orders with minimum Rs. 350.00 lakhs each (OR) Three orders with minimum Rs. 280.00 lakhs each during the last Seven years.
- c) Submission of the Copy of Purchase Order/ work order, Completion Certificate, Details of contact person with name, designation and contact number is mandatory along with the

Eoi in the last seven years. Failure to provide these documents will result in the summary rejection of the offer.

d) The Bidder must provide Audited Balance sheets, including statements of profit and loss accounts for the last THREE financial years.

e) Income Tax Return statement for the last THREE consecutive Assessment Years prior to the due date of submission of Eoi should be provided.

f) The bidder must confirm compliance with GFR 144 (Xi) rule.

As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods,

services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

g) Bidders must confirm compliance to Public Procurement (Preference to Make in India) order 2017- revision issued by Government of India, Department of Promotion of Industry and Internal Trade [DPIIT] Public Procurement [preference to Make in India] vide Order No P-45021/2/2017-PP(BE II) dated 16/09/2020 or as amended thereafter.

h) A Self-declaration should be provided by the bidder, stating that, there are no pending complaints or vigilance inquiries against the firm in any Government/Department/PSU, and they have not been blacklisted by any Government Department/PSU.

5.0 MODE OF SUBMISSION OF EOI/ EVALUATION CRIETERIA

Interested Bidders are required to submit their Expression of Interest (EOI) on their letterhead, providing details of a Contact Person. The EOI should NOT include any Price details.

The submission of the EOI should adhere to the following format:

- A covering note expressing the intent to participate in the bid should be typed on the company's letterhead and signed by an authorized signatory.

- Documentation demonstrating Eligibility Criteria fulfillment as outlined in section 4.

EOIs received from bidders shall be evaluated and shortlisted based on technical competence, conformance to the general specifications, experience in handling similar projects etc as detailed in the Eligibility Criteria. VSSC may also choose to visit the bidder's office /project sites/experience centers/Manufacturing units if required.

Shortlisted vendors will be invited to VSSC for site visit which is mandatory. Following the site visit, a detailed technical report which shall include Design, Configuration, Technical Specification. The detailed Technical Report must be submitted within 15 days from the date of Site visit.

Based on the inputs from the shortlisted bidders, Department will generate the Request for Proposal (RFP). The RFP will be issued to the shortlisted parties.

8.0 Time schedule

Sl. No	Mile Stone	Expected date of completion
1	Floating of EOI	T
2	Submission of EOI	T+21 days
3	Short listing of vendors (T1)	T + 42 days.
4	Site visit (date will be intimated by the Dept.) (T2)	T1 + 10days
5	Detailed technical report submission	T2 + 15 days

9.0 General Terms and Conditions

- The bidder is responsible for executing the entire work on a TURNKEY basis and delivering it to VSSC in a fully operational condition.
- The bidder assumes responsibility for the Design, supply, installation, and commissioning of a state-of-the-art audio-visual system in Dr Srinivasan Auditorium .
- The bidder shall ensure that all electrical works for the entire facility, completed in all aspects, fall under their responsibility.
- More than 50%of work is not permitted to be subcontracted. However, any portion of the work outside the bidder's expertise may be subcontracted to a reputable

e) (Contractor) in that field with prior approval from the Department. No Sub-Contract should be awarded to Blacklisted parties.

f) Department intends to evaluate proposals and finalize contracts without engaging in discussions with the Party. Consequently, the Party's initial proposal should present its best terms without ambiguity. Department reserves the right to conduct discussions/clarifications if deemed.

g) Department reserves the right to change the scope of the work, deemed to be in the Department's best interest. Department also reserves the right to cancel the entire process duly envisaging the reasons

h) The bidder is required to thoroughly study the EOI document and express interest only after careful examination of all instructions, eligibility criteria, terms and specifications as per the EOI document, with a complete understanding of its implications.

h) The bidder shall bear all costs and expenses related to the preparation, site visit and submission of the EOI document, including post-EOI clarifications, discussions,

technical presentations, and other expenses and the Department will not reimburse any expenses.

i) All EOIs must be submitted before the specified time and date detailed in the EOI document. EOIs received after the stipulated deadline will be rejected.

j) If any documents submitted are in a language other than English, the bidders must provide a duly attested English translation. For document interpretation purposes, the English translation will prevail.

k) Reports and documents submitted to Department are considered confidential and proprietary. The Bidder is prohibited from disclosing any information, either in part or in full, to any third party, Bidder, or individual without prior written consent from VSSC.
