

भारत सरकार / GOVERNMENT OF INDIA
अंतरिक्ष विभाग / DEPARTMENT OF SPACE
क्रय यूनिट-III / PURCHASE UNIT-III
विक्रम साराभाई अंतरिक्ष केंद्र / VIKRAM SARABHAI SPACE CENTRE
तिरुवनंतपुरम / THIRUVANANTHAPURAM – 695 022
Tel: (0471) 2563676/3775/3609
email: spso_prso_pur@vssc.gov.in, pso2_prso_pur@vssc.gov.in

EXPRESSION OF INTEREST

Ref. No. VSSC/EOI/03/2024-25

Date: 30/10/2024

"रोकेट नोदक संयंत्र (आरपीपी) सुविधाओं के लिए प्रचालन एवं अनुरक्षण (ओ एवं एम) सेवाएं प्रदान करने हेतु
अभिरुचि की अभिव्यक्ति (ईओआइ)

"Expression of Interest (Eoi) for providing Operation & Maintenance (O&M) Services for Rocket Propellant Plant (RPP) facilities."

इच्छुक प्रत्याशित निर्माता हमारे संदर्भ सं. VSSC/EOI/03/2024-25 का उद्धरण करते हुए **02/12/2024 [16:00 Hrs.]** को या उससे पहले निम्नलिखित पते पर अपनी अभिरुचि की अभिव्यक्ति दे सकते हैं।

VSSC invites, EOI from prospective bidders for "**Providing Operation & Maintenance (O&M) Services for Rocket Propellant Plant (RPP) facilities.**". Interested parties may furnish their **Expression of Interest in Sealed Envelope** quoting our Reference No. VSSC/EOI/03/2024-25 on or before **02/12/2024 [16:00 Hrs.]** to the following address:

नोट:- मेक इन इंडिया नीति के अनुसार केवल श्रेणी-I और श्रेणी-II के स्थानीय आपूर्तिकार इस बोली में भाग लेने के पात्र हैं।

Note:- Only Class-I and Class-II Local suppliers as per Make in India policy are only eligible to participate in the bid

वरि. क्रय एवं भंडार अधिकारी / Sr. Purchase & Stores Officer,
क्रय यूनिट III / Purchase Unit- III,
आरएफएफ क्षेत्र, इसरो पीओ / RFF Area, ISRO. PO,
तिरुवनंतपुरम / Thiruvananthapuram- 695022.
फोन/Ph: 0471-256 3775/3609

EOI documents are available at our website www.isro.gov.in and www.vssc.gov.in.



**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE, ISRO
VIKRAM SARABHAI SPACE CENTRE
PURCHASE & STORES DIVISION
Tel: (0471) 2563775; Fax: (0471) 2562105**

Ref. No. VSSC/EOI/03/2024-25

Date: 30/10/2024

INVITATION FOR EXPRESSION-OF-INTEREST

Vikram Sarabhai Space Centre (VSSC) invites Expression-Of-Interest (EOI) for providing Operation and Maintenance (O&M) services for Rocket Propellant Plant (RPP) facilities at VSSC, Thiruvananthapuram". It is proposed to entrust the scope of providing services for Operation and Maintenance of RPP facilities to external VENDOR/CONTRACTOR, which include utility & material handling equipment, minor fabrication and machining activities, propellant waste disposal activities and rocket hardware preparation and its handling/movement. Safety and quality are of utmost importance while working in this environment. Overall management of the O&M services for the above areas at RPP needs to be taken care and all issues and concerns must be addressed on a timely manner adhering to the stipulated activity schedule.

Interested VENDORS having adequate know-how, qualified and skilled technical personnel, knowledge/experience in O&M of utility and material handling equipment (cranes, forklifts, platform trucks, vacuum systems, pneumatic air supply systems), minor fabrication including machining & welding, handling of explosive/propellant waste and capability to do mechanical integration of hardware/components are invited to participate in the EOI. On receipt of EOI, VSSC shall evaluate and assess the suitability prior to short-listing of Vendors. This call for EOI does not carry with it any guarantee for allotment of contract.

EOI document can be downloaded from website www.isro.gov.in and the same also shall be submitted within the due date and time. "Expression of Interest" with all essential information shall reach the Senior Purchase and Stores Officer, Purchase Unit III, Vikram Sarabhai Space Centre, ISRO Post, Thiruvananthapuram 695022, Kerala, on or before 30/11/2024. This EOI is issued as a "Pre-Bid Qualification". Inadequate or incomplete information will result in rejection of the offer. VSSC reserves the right to accept or reject all or any of the EOI. Mere compliance to the EOI terms does not guarantee further consideration for qualification.

For further details, terms & conditions, Senior Purchase & Store Officer, Unit III, SPRE Purchase, VSSC, Thiruvananthapuram -695022 may be contacted (preferably through e-mail: spso_prso_pur@vssc.gov.in) quoting the ref no. VSSC/EOI/03/2024-25.





**Government of India
Department of Space
Vikram Sarabhai Space Centre
Indian Space Research Organisation
Thiruvananthapuram-695022
Kerala**

No. VSSC/EOI/03/2024-25

Date: 30/10/2024

INVITATION FOR EXPRESSION-OF-INTEREST

"Expression-Of-Interest for providing Operation and Maintenance (O&M) services for Rocket Propellant Plant (RPP) facilities".

1. Preamble

Vikram Sarabhai Space Centre (VSSC) is the lead Centre of Indian Space Research Organisation (ISRO) that specializes in the design and realization of satellite launch vehicles. To meet the increasing demand of launches, ISRO has decided to look forward to participation of private company (VENDOR/CONTRACTOR) for supporting services like Operation and Maintenance of facilities and systems including handling, movement & transportation of hardware and processed/semi processed items, fabrication & machining activities, and propellant waste disposal activities at VSSC.

Objective is to provide Operation and Maintenance (O&M) services for RPP facilities (Utility & material handling equipment and rocket hardware preparation and its handling/movement, machining, welding & minor fabrication, propellant waste disposal) at Rocket Propellant Plant (RPP), VSSC by the VENDOR.

2. Scope of work

The Rocket Propellant Plant (RPP) in VSSC is the first solid propellant plant established in the late 1960's for meeting the solid propellant/motor requirements for sounding rockets and launch vehicles. Over the years the plant has grown and has built up the facilities required for realisation of solid motors up to 1m diameter class at VSSC.

All the activities related to processing of solid motors are carried out in dedicated facilities at RPP and these facilities are provided with utility equipment viz. vacuum pumps and associated subsystems, vacuum casting chambers, compressors and associated compressed air distribution systems, overhead cranes, forklift trucks, platform trucks etc.

Under the scope of work of the proposed CONTRACT, the O&M Team (CONTRACTORS's personnel) shall provide O&M services for Utility and material handling equipments, workshop activities viz. minor fabrication, welding and machining activities. CONTRACTOR's O&M Team shall also prepare rocket motor hardware for various processing activities and carry out operations like transportation, material handling etc. and maintenance of the equipment of the plant including related activities as per the guidelines and procedures laid out by the DEPARTMENT. Qualified welder and turner are also required for carrying out minor fabrication activities. Qualified electricians are required for carrying out electrical maintenance activities. Disposal of waste propellant also is to be carried out. Towards meeting the above said requirements, the

CONTRACTOR shall provide personnel at the levels of Supervisor, Technician and forklift operator, meeting qualification requirements.

The scope of work broadly shall include providing Operation and Maintenance (O&M) services in RPP i.e. (1) carrying out the identified operations in the facilities of RPP as per approved operation procedures and Safety & Quality guidelines, including waste propellant disposal and (2) maintenance of the plant i.e. maintenance of all the equipment and facilities as per the recommended practices including minor fabrication, welding and machining (turning) as laid out in the appropriate maintenance manual and as per accepted engineering practices/codes procedures provided by the DEPARTMENT.

VSSC will oversee and verify through its identified personnel, all the O&M activities undertaken by the O&M Team of the CONTRACTOR. Clearances will be issued for major operations before the commencement of the same.

3. Support provided by VSSC

All the identified activities shall be directly supervised by the supervisors of the contractor, identified under the O&M contract, and VSSC will oversee & verify the activities related to utility & material handling equipment and also hardware preparation, handling and transportation of rocket motor hardware/segments carried by the O & M team. Propellant waste disposal activities shall also be carried out with participation of VSSC personnel. The maintenance documents/logs for the equipments identified under O&M CONTRACT and the Procedure Document for O&M of utility equipments, harnessing & transportation of rocket hardware and other activities identified in the CONTRACT will be shared by VSSC. The maintenance schedule and periodicity of maintenance will be clearly brought out in O&M schedule and will be provided to the CONTRACTOR by VSSC. The hardware harnessing and other movement/transportation requirements also will be provided by VSSC. Fixtures, major tooling etc required for O&M utility & material handling equipments and also for harnessing and movement of hardware/segments will be provided. VSSC will provide necessary spares required for O&M CONTRACT. In addition, VSSC will provide vehicles for material transportation and also provide workshop equipment, consumables, tools etc. for maintenance and minor fabrication activities.

Logistic support like canteen facility, internal transportation etc. will be extended to the VENDOR's O&M Team as per existing norms.

4. Major activities for O&M in RPP

	Activity	Details
a.	Utility and material handling equipments	Functional checks of cranes and providing clearance for usage, emergency maintenance of cranes Load movement during calibration of weighing balances/weigh bridges and load testing of cranes. Periodic load testing of lifting tackles/fixtures and associated accessories with participation of VSSC personnel. Functional checks, cleaning and water service of forklifts and transportation truck and providing clearance. Operation of forklifts, bin and bowl transportation trucks and articulating boom for different activities inside the plant Maintenance of battery operated platform trucks

		<p>O&M of compressed air supply system involving, air compressors, dryers, pneumatic lines, air receivers and regulators etc.</p> <p>O&M for vacuum pumps</p>
		<p>Maintenance of vacuum chambers</p> <p>Minor fabrication activities/supporting fabrication activities</p> <p>Support for installation of utility equipment and associated subsystems</p> <p>Emergency maintenance of chemical waste incinerator</p> <p>Regular/pre-process checks and emergency maintenance of forklift trucks, bin and bowl transportation truck and articulating boom</p> <p>Electrical and electronic maintenance is also included in the scope of work. Other activities which are not exclusively spelt out here but essential for proper operation of the equipment shall also be in the scope of work of the contract.</p>
b.	Workshop activities	<p>Welding for carrying out fabrication of fixtures, support structures, platforms at RPP workshop etc.</p> <p>Operation of lathe for machining activities at RPP workshop and associated activities</p>
c.	Propellant waste disposal activities	<p>Collection of waste propellant from different internal facilities of RPP</p> <p>Segregation and proper storage of propellant waste in identified facilities</p> <p>Disposal of waste propellant with participation of VSSC personnel, on regular basis, as per approved procedure.</p> <p>Mixing of waste AP and AI for disposal including disposal through approved method</p>
d.	Rocket hardware harnessing and its handling/movement	<p>In-process handling activities of hardware/post cast segments (loaded with solid propellant) including hardware preparation, harnessing, trial assembly of fixtures, stencilling of identification numbers, de-coring, de-harnessing & re-harnessing and weighing of hardware/segments.</p> <p>Movement of raw materials, hardware and heavy segments/motors, both in the pre-cast hardware condition and in the post-cast segment condition. This also includes loading and unloading of materials/finished products at RPP. Miscellaneous handling activities viz. movement of dead weights, fixtures, equipment etc. Proper upkeep of associated fixtures and equipment is also part of the contract.</p>

5.Human Resource and HR policy

The VENDOR shall provide the O&M team (technical and skilled) for providing O&M services at RPP, VSSC. The screening of the proposed O&M Team of VENDOR, for their technical capability, will be done by VSSC.

The O&M Team should be qualified and experienced and should possess requisite skill-sets for providing the O&M services as specified.

The O&M Team of about **33** personnel, comprising of Diploma holders (Supervisors- Mechanical & Electronics), technicians including ITI fitters, diesel mechanic, turner, welder, electricians and trained forklift operators (with valid license for operation of forklift trucks and also HVD license) may be required to be deployed by the **VENDOR** for providing O&M services at RPP.

The **VENDOR** shall have an HR policy for retaining trained personnel. This is very essential since attrition would lead to derailment of production activities, affect safety, quality and schedule. A contract manager, minimum having graduate degree, acting as company representative, shall also be deployed by the vendor for overall management of manpower contract personnel and also for interfacing with VSSC. There will not be any separate payment for contract manager.

6. Duration of the CONTRACT

The duration of the **CONTRACT** shall be initially for a period of two years. The **CONTRACT** period will essentially start with an induction period (one month) wherein familiarisation of the facilities and training on operational aspects, safety aspects and quality aspects will be addressed. The contract may be extended for a further period of two years, on mutual consent, without any changes in any of the terms and conditions.

7. Other requirements

Security : O&M Team shall comply with the security regulation of VSSC.

Safety : O&M Team shall follow all safety stipulations.

Secrecy : The **VENDOR** and the O&M team shall abide by the **INDIAN OFFICIAL SECRETS ACT** in vogue and shall provide information of awareness of the above in writing.

8. Criteria for scrutiny of EOI proposals

8.1 General

The EOI shall contain complete information of the **VENDOR**, its human resources, infrastructure, assets, financial standing, line of business and credentials.

8.2 Essential criteria for evaluation of EOI

8.2.1 **VENDORS** registered in India need only participate.

8.2.2 **VENDORS** who are ready to supply personnel having experience in providing O&M services for mechanical systems and handling of explosives need only apply.

8.2.3 Certified copies from Chartered Accountant for the annual financial turnover and balance sheet of last three financial years, showing profit/loss, to be furnished.

8.2.4 **VENDOR** should have prior experience in working with aerospace/defense sector/factory/manufacturing plant in the area of O&M.

8.2.5 In event of response from **VENDORS** already executing **ISRO** contracts, past performance will be considered.

8.2.6 The VENDOR should shall possess human resources with adequate knowledge, skill and experience in the areas of O&M of similar facilities. Personnel who have undergone training in VSSC or have worked in VSSC for similar activities will be given weightage.

Note:

1. For Clause No.8, all information provided by the VENDOR shall be supported with documentary evidence. Brochure, if any, detailing the VENDOR profile may be submitted. Copy of the previous similar purchase/work orders executed by the VENDOR also may be appended.
2. The final evaluation of the responses will be based on inputs furnished against our criteria and overall assessment.

VENDORS who are meeting the requirements as specified in clause 8 of the EOI and are interested in associating with ISRO for providing O&M services at VSSC, Thiruvananthapuram may submit their interest in writing along with copies of supporting documents for verification/evaluation at VSSC. Qualified VENDORS will be shortlisted and detailed proposals from such VENDORS will be solicited through a RFP.

A checklist (Annexure -1) for the supporting documents to be submitted by the VENDOR along with the EOI is enclosed.

Annexure - 1

Checklist for the supporting documents

(Filled checklist to be submitted by the Vendor along with the Expression of Interest)

Sl.	Document / Proof	Attached or Not-attached with EOI	Remarks
1.	Company registration details		
2.	Proof for experience in the area of O&M of Utility and material handling systems		
3.	Certified copies from Chartered Accountant for balance sheet of last three years, showing profit/loss		
4.	Documents in support of prior experience in working with aerospace/defence sector/factory/manufacturing plant in the area of O&M.		
5.	Copy of previous purchase orders executed with ISRO/Defense/Aerospace sectors		
6.	Company profile, management structure and human resources and their experience		
7.	Company brochure		
8.	Copies of similar purchase/work orders executed by the Company		

