

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
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अभिरुचि की अभिव्यक्ति / EXPRESSION OF INTEREST

सं. वीएसएससी/एसपीआरई-क्रय/ईओआइ/एपीईपी/2025
No. VSSC/SPRE-PUR/EOI/APEP/2025

तिथि: 11.12.2025
Date: 11.12.2025

IS: 5301-1987 के अनुसार शुद्ध श्रेणी सोडियम क्लोरेट की आपूर्ति हेतु अभिरुचि की अभिव्यक्ति
EXPRESSION-OF-INTEREST FOR THE SUPPLY OF PURE GRADE SODIUM CHLORATE AS PER IS: 5301-1987

वीएसएससी, **IS: 5301-1987 के अनुसार शुद्ध श्रेणी सोडियम क्लोरेट की आपूर्ति** हेतु संभावित बोलीदाताओं से ईओआइ आमंत्रित करता है। इच्छुक पार्टियां, हमारे संदर्भ सं. वीएसएससी/एसपीआरई-क्रय/ईओआइ/एपीईपी/2025 का उद्धरण करते हुए **मुहरबंद लिफाफे में अपनी अभिरुचि की अभिव्यक्ति** दिनांक 12.01.2026 (14:00 बजे) तक या उससे पहले निम्नलिखित पते पर प्रस्तुत कर सकती हैं।

VSSC invites, EOI from prospective bidders for **THE SUPPLY OF PURE GRADE SODIUM CHLORATE AS PER IS: 5301-1987**. Interested parties may furnish their Expression of Interest in Sealed Envelope quoting our Reference No. VSSC/SPRE-PUR/EOI/APEP/2025 on or before 12.01.2026 [14:00 Hrs] to the following address:

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 3775/3617

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

नोट- नमूने की आपूर्ति ईओआइ दस्तावेज में उल्लिखितानुसार होनी चाहिए।

Note: The supply of the sample shall be as mentioned in the EOI document.

ईओआइ दस्तावेज हमारे वेबसाइट www.isro.gov.in और www.vssc.gov.in पर उपलब्ध हैं।
EOI documents are available at our website www.isro.gov.in and www.vssc.gov.in.

हस्ताक्षरित/Sd/-

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

Ref: VSSC/SPRE/APEP/EOI-SC/2025

SUPPLY OF PURE GRADE SODIUM CHLORATE
AS PER IS: 5301-1987

Request inviting
EXPRESSION OF INTEREST

OCTOBER 2025

VIKRAM SARABHAI SPACE CENTRE
INDIAN SPACE RESEARCH ORGANISATION

1. INTRODUCTION

Ammonium Perchlorate Experimental Plant (APEP), Vikram Sarabhai Space Center (VSSC), ISRO is located at Aluva, Kerala. APEP manufactures Ammonium Perchlorate (AP) for ISRO's rocket programs. Sodium chlorate is one of the major and critical raw materials for manufacture of AP. Its purity and quality has a high impact on the properties of AP.

APEP (Purchaser) requires Sodium Chlorate of pure grade as per IS 5301-1987 (Reaffirmed 2022). Approximate annual requirement of sodium chlorate at VSSC is in the range 1200 MT to 2400 MT. It shall be delivered in staggered lots, based on monthly needs.

2. OBJECTIVE OF EOI

This Expression of Interest (EOI) is aimed at identifying competent Indian manufacturers of sodium chlorate and qualifying them for supply to ISRO at the rate of 1200-2400 MT per annum or part, as required by the Department. The actual quantity may vary depending on programmatic requirements. ISRO may simultaneously procure sodium chlorate from other sources also, at the whole discretionary power of the Department.

3. QUALIFICATION PROGRAM

- a. Initially, the vendors will have to supply sodium chlorate samples (1 kg from a single batch) free of cost for laboratory level evaluation. The samples will be checked by the Purchaser for compliance with IS 5301-1987. Vendors who successfully qualify in 1 kg sample evaluation and meet all criteria as mentioned in this EOI shall be shortlisted for further assessment.
- b. **A Technical Evaluation Committee (TEC) from the Purchaser shall visit the manufacturing facility of the vendors who have qualified the sample level evaluation process, to assess the eligibility criteria and for further recommendations for including as a vendor for bidding.**
- c. A Limited Tender shall be floated among the vendors recommended by TEC, for the supply of 30 MT sodium chlorate prepared from three different production batches (10MT/ batch). Against the LT, the lowest priced bid meeting all the technical and commercial conditions as per the EOI will be considered for supply of 30 MT.

In order to have additional vendors, the department has the freedom to procure 30 MT sodium chlorate from all the parties shortlisted by TEC, who are willing to supply at the same rate as L1 bidder, for further qualification trials at VSSC.

The 30 MT sodium chlorate procured, will be evaluated by the Purchaser, at various levels in the following sequence:

1. **At product level:** All parameters listed in IS 5301-1987, for compliance
2. **At Ammonium Perchlorate level:** Ammonium Perchlorate (AP) will be produced using a part of 30 MT sodium chlorate. AP thus produced will be tested by the Purchaser at their labs for chemical, physical and thermal properties and it shall meet the specifications stipulated by the Purchaser.
3. **At Propellant level:** If the quality of AP produced complies with the specifications

stipulated by the Purchaser, further AP will be used for propellant level qualification to evaluate the properties of propellant in different formulations, by the Purchaser.

Vendor/ vendors shall be notified, if their product successfully completes the qualification program.

The bulk procurement (1200 – 2400 MT/year) of sodium chlorate will start only after successful qualification of vendor, based on the results of propellant trials conducted by the Purchaser, with the ammonium perchlorate produced using the supplied 30 MT sodium chlorate. For this bulk procurement, separate tender will be floated on LT basis including all qualified vendors (new and existing) of sodium chlorate.

4. SPECIFICATIONS OF SODIUM CHLORATE

Pure Grade Sodium Chlorate as per IS 5301-1987 conforming to the following:

- **Purity: 99.0 % by wt (Minimum)**
Maximum Limit of Impurities (% by wt)
 - Insoluble matter : 0.05
 - Chloride (as Cl-) : 0.05
 - Sulphate (as SO_4^{2-}) : 0.02
 - Bromate (as BrO_3) : 0.05
 - Heavy metals (as Pb) : 0.001
 - Iron (as Fe) : 0.005
 - Nitrogen compounds (as N) : 0.001
 - Alkaline earths : 0.05
 - Arsenic (as As_2O_3) : 0.0002
 - Chromium : 0.005

5. REVIEW CRITERIA FOR EOI

Interested vendors shall submit the EOI within 30 days of this advertisement. The EOI shall contain the following details:

- a. Conformance to IS specifications for pure grade sodium chlorate to be supplied as per the specifications mentioned in SI: No.4 The supply lot should have been produced not earlier than 18 months from the date of supply. Test certificates, with traceability to the date of production and analysis results as per SI: No: 4 shall be furnished along with the supply of 1 kg free sample and 30 MT material.
- b. The supplier should be an established reputed chemical manufacturer, who has his own process plant for the production of sodium chlorate, with a production capacity of 20 MT/day or more.
- c. Manufacturing plant shall be located within India and exact location of the manufacturing facility shall be shared with the Purchaser
- d. Process description and process flow diagram of sodium chlorate manufacture.
- e. Once the product is qualified, the prescribed process steps as given in the tender document are to be strictly adhered and any change should be done only with the approval from the Department.
- f. Annual production statement of sodium chlorate for the last three years to be provided as documentary evidence.
- g. Present major customers of sodium chlorate, with quantity of annual supply and the contact details of customers shall be indicated.
- h. Annual turnover for the company for the past 3 years should be at least Rs.700

Lakhs per annum. The income tax return for the past 3 years to be provided as documentary evidence.

The details requested above shall be typed on company letter head and to be submitted along with the EOI. The EOI shall also be accompanied with 1 kg free sample of sodium chlorate manufactured from the normal production batch, along with the test certificate. It shall reach the Purchaser within 30 days from date of tender. *The sample shall be sent to General Manager, APEP/ ISRO, Erumathala, P.O., Aluva, Ernakulum (Dist.), Kerala. PIN 683112.* These samples shall be tested by APEP to confirm that it meets the product specifications mentioned in SI: No: 4.

Parties those do not meet the above criteria shall be rejected and excluded from the subsequent LT bidding process for procurement of 30 MT for qualification trials.

Party shall not mention price of Sodium Chlorate while submitting the EOI.

Only shortlisted suppliers will be considered for further supply of 30 MT Sodium chlorate for carrying out qualification trails as mentioned in SI No 3 of this EOI

6. OTHER TERMS AND CONDITIONS

6.1. Quality Control

- a. The party shall have stringent control on the quality of raw material used for the manufacture of the product Sodium Chlorate pure grade. The raw material test certificate along with its source shall be submitted to Purchaser corresponding to 1 kg sample and each batch of Sodium Chlorate, in connection with supply of 30 MT.
- b. ISRO shall have the rights for periodic inspection/auditing of the plant to verify the manufacturing steps/process. Party shall facilitate the visit in a notice as short as 24 h.
- c. The party shall have a well documented procedure for acceptance of raw material for the manufacture of Sodium Chlorate pure grade. The copy of the same has to be submitted to Purchaser along with submitting the proposal. Traceability of raw material used for manufacturing each batch of Sodium Chlorate shall be available.
- d. Only demineralized water shall be used in the processing steps for the manufacture of Sodium Chlorate.
- e. The sources for raw material mentioned in the tender shall only be used for the manufacture of Sodium Chlorate pure grade and the details of the sources shall be submitted to the Purchaser along with EOI.
- f. Party shall certify that the raw materials used for manufacturing 1 kg sample, qualification and the bulk supply lots (as per sl no. 3) shall be from the same source to ensure consistency in purity. Any change in source of raw materials for the supply of Sodium Chlorate to the Purchaser shall be only with the clearance of Purchaser.
- g. Company's quality management program and details of ISO certification if available shall also be given in the offer.
- h. The full address and contact details of the vendor with manufacturing plant address.

6.2. Sample submission

- a. Once the samples are submitted to the Purchaser for evaluation, under no circumstances changing/ replacing of samples shall be allowed.
- b. The authority to accept/reject samples based on acceptance criteria rests fully with the

Purchaser and party will not be consulted.

- c. Once a sample is rejected, no further queries shall be entertained.
- d. No claim shall be entertained to collect back test samples, test certificates, reports, etc. Entire evaluation program shall be carried out by the Purchaser at their own facilities. At no point of time, any kind of intervention in the qualification program shall be entertained.
- e. Samples for qualification are to be delivered at APEP/ ISRO, Aluva by respective bidders.

6.3. Delivery schedule:

- Submission of 1 kg sodium chlorate as free sample: along with EOI offer

7. GENERAL TERMS AND CONDITIONS

- a. This EOI is for shortlisting the probable vendors for Sodium Chlorate to ISRO only and in no way an agreement for its procurement in future.
- b. The vendor shall identify and inform a suitable technical person, who is thorough about the manufacturing process, (Engineer/ Manager) as focal point for further interactions
- c. Vendor shall be willing to enter into a long term/ short term agreement with ISRO for bulk supply.
- d. ISRO shall have the full authority to reject a vendor at any stage during or after the qualification program. Qualification of the sample does not guarantee that the vendor will be shortlisted as a probable vendor.
- e. ISRO shall have the right to short close the EOI and process of awarding contract without giving any details to the EOI respondents.
- f. ISRO has the right to split the PO and award contract to more than one vendors.



[In your Letter Head]

In line with the Government Public Procurement Order No. P/45021/2/2017-BE-II dtd. 15.06.2017, as amended from time to time, and as applicable on the date of submission of tender, we hereby certify that, we M/s. _____ are local supplier meeting the requirement of minimum local content, _____%, as defined above in the orders for the material against Tender Enquiry No. ____ dtd. ____ . The HSN No. of the item supplied is _____

Percentage of Local value addition, involved in the item are: _____

This is also certified that the following factors are excluded in the above percentage: (strike out which are not applicable) 1. imported item sourced locally from resellers/distributors (value in ____% including tax, if applicable) 2. The license fee/royalties paid/technical charges paid out of India. (value in____% including tax, if applicable) 3. Repackaged/refurbished/rebranded imported products (value in ____% including tax, if applicable)

The details of location at which the value addition will be made is as follows:

We also understand that, false declarations will be in breach of code of integrity, under rule 175 (1) (i) (h), of the General Financial Rules, for which a bidder, or its successors can be debarred for up to 3 years under Rule 151 (iii) of the GFR along with such other actions as may be permissible under law.

For (company name) Authorised Signatory.

Mandatory Declaration to be attached by bidders regarding restrictions on procurement from the bidder of a country which shares a land border with India.

(In the Letter Head of the Bidder) –

The below matter may be submitted in your letter Head

As per the provision of Office Memorandum N0. F.N0. 6/18/2019- PPD dtd. 23.07.2020 (i.e., Rule No. 144 (xi) of GFR) and its Amendments dtd 23.02.2023, issued by Department of Expenditure, Ministry of Finance. I hereby declare and certify the following.

(1) I have read the clause regarding restrictions on procurement from the bidder of a country which shares a land border with India.

(2) I certify that this bidder is not from such a country or, if from such a country. I have registered with the Department for Promotion of Industry and Internal Trade. Bidder from a country which shares a land border with India for the purpose of the Order means: (2.1) An entity incorporated, established or registered in such a country; or (2.2) A subsidiary of an entity incorporated established or registered in such a country; or (2.3) An entity substantially controlled through entities incorporated established or registered in such a country; or (2.4) An entity whose beneficial owner is situated in such a country; or (2.5) An Indian (or other) agent of such an entity; or (2.6) A natural person who is a citizen of such a country; or (2.7) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

(3) I hereby certify that I am not an agent as defined in the order who procures and supplies finished goods from an entity from a country which shares a land border with India, regardless of the nature of legal or commercial relationship with the producer of the goods.

(4) I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.

Date:

(Authorised Signatory) (Seal)