



भारत सरकार / Government of India
अंतरिक्ष विभाग / Department of Space
यू.आर. राव उपग्रह केंद्र / U.R.RAO SATELLITE CENTRE
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बेंगलूरु/ BENGALURU – 560 017

Ref No.: URSC/C-PUR/ISCP2026068720/Eol/2026-27

15.10.2026

विषय: अंतरिक्ष गुणवत्ता मानकों के अनुरूप बैटरी के पूर्ण कार्यान्वयन के लिए इच्छा की अभिव्यक्ति का आमंत्रण

**Invitation for Expression of Interest [Eol]
for End-to End Realization of Space Quality SP Configured Batteries-Reg**

भारतीय अंतरिक्ष अनुसंधान संगठन [इसरो] के अंतर्गत, अंतरिक्ष विभाग, भारत सरकार की 'यू. आर. राव सैटेलाइट सेंटर' [यूआरएससी] (जिसे पहले इसरो सैटेलाइट सेंटर के नाम से जाना जाता था), सभी भारतीय निर्मित उपग्रहों के डिजाइन, विकास, निर्माण और परीक्षण के लिए जिम्मेदार है। यूआरएससी वर्तमान में उद्योगों को अंतरिक्ष-गुणवत्ता वाली बैटरी गतिविधियों के संपूर्ण कार्यान्वयन में भाग लेने के लिए आमंत्रित कर रहा है। भागीदार अंतरिक्ष-गुणवत्ता वाली बैटरी गतिविधियों के संपूर्ण कार्यान्वयन में शामिल हो सकते हैं।

U. R. Rao Satellite Centre [URSC] (Formerly known as ISRO Satellite Centre), of Indian Space Research Organization [ISRO] under Department of Space, Government of India is responsible for Design, Development, Fabrication and Testing of all Indian made Satellites. URSC is currently inviting industries to take up **End-to End Realization of Space Quality Battery activities.**

ईओआई (EOI) के दस्तावेज़ हमारे वेबसाइट www.isro.gov.in से डाउनलोड किए जा सकते हैं
EOI documents can be downloaded from our website www.isro.gov.in

यह प्रस्ताव उन आपूर्तिकर्ताओं/उद्योगों के समूहों को निमंत्रण देने के लिए है जो "एस-पी" कॉन्फ़िगरेशन वाले बैटरियों का निर्माण, असेंबली और परीक्षण करने के लिए इच्छुक हैं। इन आपूर्तिकर्ताओं के पास अंतरिक्ष गुणवत्ता वाले बैटरी गतिविधियों के "शुरुआत से अंत" तक के कार्यान्वयन के लिए आवश्यक तकनीकी बुनियादी ढांचा और क्षमता होनी चाहिए, और वे योग्यता प्राप्त करने के लिए तैयार होने चाहिए। जो आपूर्तिकर्ता अंतरिक्ष गुणवत्ता वाले बैटरी गतिविधियों के "शुरुआत से अंत" तक के कार्यान्वयन में रुचि रखते हैं, वे इस पूछताछ का जवाब दे सकते हैं। अंतरिक्ष गुणवत्ता वाले बैटरी गतिविधियों के "शुरुआत से अंत" तक के कार्यान्वयन की आवश्यकताएं इस दस्तावेज़ के परिशिष्ट में संलग्न हैं।

This proposal is to invite Expression of Interest to invite vendors/consortium of industries to carry out the fabrication, assembly & testing of S-P configured batteries having technical infrastructure and capability for End-to End Realization of Space Quality Battery activities and are ready to perform qualification. Those vendors who are interested to qualify End-to End Realization of Space Quality Battery activities may respond to this enquiry. The requirements of End-to End Realization of Space Quality Battery activities are attached as Annexure to this document.

इस संबंध में जिनके पास पूर्णतः सुसज्जित अंतरिक्ष गुणवत्ता बैटरी गतिविधियों का संपूर्ण कार्यान्वयन करने की क्षमता है अथवा इसे स्थापित करने की प्रक्रिया में है और यू आर एस सी को सुपुर्दगी कर सकते हैं, से इच्छा की अभिव्यक्ति का आमंत्रण करता है।

In this regard, URSC invites the Expression of Interest [Eoi] from Indian Industries/Vendors who have or are in the process of establishing End-to End Realization of Space Quality Battery activities and deliver it to URSC.

ई ओ आई का मूल्यांकन बोलीकर्ताओं के अनुभव, कार्यक्षेत्र की जानकारी, सुविधा अवसंरचना, प्रस्तावित कार्यप्रणाली और कार्य योजना, कुशल जनशक्ति और उद्योग की वित्तीय ताकत के आधार पर किया जाएगा।

The EOI will be evaluated on the basis of bidder's experience, understanding of scope of work, facility infrastructure, proposed methodology and work plan, skilled manpower and the financial strength of the industry.

यूआरएससी आवश्यकता पड़ने पर ईओआई की प्रक्रिया को रद्द करने/पुनः जारी करने या और जानकारी/विवरण मांगने का अधिकार सुरक्षित रखता है।

URSC reserves the right to cancel/re-issue the process of EOI if the necessity so arises or to seek further information/details.

यदि कोई कंपनी/फर्म किसी भ्रष्ट या धोखाधड़ीपूर्ण व्यवहार में लिप्त पाई जाती है, तो उसे निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा और उसके ईओआई दस्तावेज़ पर विचार नहीं किया जाएगा।

Companies/Firms, if found to have indulged in any corrupt or fraudulent practices, will be debarred taking part in the Tendering process and their EOI Document will not be taken up for consideration.

इच्छा की अभिव्यक्ति के साथ-साथ आपूर्तिकर्ताओं/फर्मों को निम्नलिखित जानकारी भी विस्तार से प्रस्तुत करनी चाहिए:

Along with "Expression of Interest" Suppliers/ Firm[s] should furnish the following information also in detail:

1. कंपनियों का पंजीकृत पता के साथ, फोन, फैक्स, ईमेल, वेब आदि।
Registered address of the Companies with Phone, Fax, Email, Web etc.
2. कंपनी/संगठन की स्थिति (स्वामित्व/साझेदारी/निजी/सार्वजनिक लिमिटेड आदि) के साथ मालिक, भागीदारों, निदेशक मंडल आदि के नाम और पता।
Company/Organization Status (Proprietary/Partnership/Private/Public Ltd. etc.) with Name and Address of Proprietor, Partners, Board of Directors, etc.
3. सहयोगी: (ए) भारतीय (बी) विदेशी।
Associates: (a) Indian (b) Foreign.
4. पिछले 3 वर्षों के दौरान प्रमुख ग्राहकों की सूची, पूर्ण पता और उनके संपर्क व्यक्ति।
List of Major Customers during the last 3 Years with full address and their Contact Persons.
5. स्वामित्व वाली/उपलब्ध अवसंरचना सुविधाओं का विवरण।
Details of Infrastructure Facilities owned / available.

6. कंपनी के प्रमुख शेयरधारकों के नाम और पते तथा उनकी शेयर पूंजी का प्रतिशत।
Names and addresses of the major Shareholders of the Company and the percentage of their share capital.
7. नवीनतम वार्षिक रिपोर्ट की प्रति के साथ पिछले 3 वित्तीय वर्षों के लिए पूंजी और कारोबार।
Capital and Turnover for the preceding 3 Financial Years with copy of latest Annual Report.
8. उपलब्ध वित्तीय क्षमता /क्रेडिट सुविधाएं।
Financial Capacity/Credit facilities available.
9. बैंकरों का नाम और पता।
Name and Address of Bankers.
10. व्यापार संघ जिससे उद्योग जुड़ा/ जुड़े हैं।
Trade Association to which Industry/ies belong to.
11. संस्था/बिक्री/सेवा कर पंजीकरण संख्या।
Establishment/Sales/Service Tax Registration Number.
12. व्यापार का प्रकार।
Nature of Business
13. बैंकरों द्वारा जारी फर्म की सॉल्वेंसी/वित्तीय क्षमता।
Solvency/Financial capacity of the Firm issued by their Bankers.
14. उद्योगों की अन्य कोई प्रासंगिक जानकारियाँ।
Any other information the Industry/ies consider relevant.
15. सामर्थ्य और कमियों के क्षेत्रों को स्पष्टतः प्रकट करते हुए कंपनी/कंपनियों के प्रोफाइल
The Profile of the Company/ies clearly bringing out the areas of Strength and Weaknesses.
16. ई ओ आई में भाग लेने के लिए तकनीकी और संगठनात्मक सामर्थ्य का स्व-मूल्यांकन।
Self-Assessment Technical and Organizational Competence to take part in the EOI.
17. ई ओ आई में उल्लिखित प्रत्युत्तर प्रपत्र
Response forms as mentioned in the Eoi

ईओआई प्रतिक्रिया को पूरा करना/Completion of the EOI Response:

- a. कंपनी/फर्म को ईओआई दस्तावेजों के सभी अनुदेशों, निबंधन और शर्तों, प्रपत्रों, आवश्यकताओं और अन्य सूचनाओं का सावधानीपूर्वक अध्ययन करने की सलाह दी जाती है। ईओआई प्रस्तुत करना ईओआई दस्तावेजों के सावधानीपूर्वक अध्ययन और जांच के बाद किया गया माना जाएगा, जिसमें इसके निहितार्थों की पूरी समझ हो।

The Company/Firms are advised to study all the instructions; Terms and Conditions; Forms; Requirements and other information in the EOI documents carefully. The submission of EOI shall be deemed to have been done after a careful study and examination of the EOI documents with full understanding of its implications.

- b. इस ई ओ आई का जवाब सभी मामलों में पूर्ण और संपूर्ण होना चाहिए। ई ओ आई दस्तावेज द्वारा आवश्यक सभी जानकारी प्रस्तुत करने में विफलता या ईओआई दस्तावेजों के हर पहलू के प्रति पर्याप्त रूप से उत्तरदायी न होने वाला प्रस्ताव प्रस्तुत करना कंपनी/फर्म के जोखिम पर होगा और इसके परिणामस्वरूप दस्तावेज को अस्वीकार किया जा सकता है।

The response to this EOI should be full and complete in all respect. Failure to furnish all the information required by the EOI document or submission of proposal not substantially responsive to the EOI documents to every aspect will be at the risk of the Company/Firms and may result in rejection of the document.

- c. प्रस्तुत किए गए ईओआई के सभी पृष्ठों पर क्रमांक होना चाहिए और अधिकृत हस्ताक्षरकर्ता द्वारा हस्ताक्षरित होना चाहिए।

All the pages of the EOI submitted must be numbered and signed by the authorized signatory.

- d. ई ओ आई के संबंध में प्रचार करना सख्त वर्जित है और एजेंसी द्वारा प्रस्तुत किए गए ऐसे प्रचार किए गए ईओआई को अस्वीकार किया जा सकता है।

Canvassing in connection with the EOI be strictly prohibited and such canvassed EOI submitted by the Agency are liable to be rejected.

क्रियाकलापों को अच्छी तरह समझने और यदि कोई संदेह हो तो उसका निवारण करने हेतु यू आर राव उपग्रह केन्द्र द्वारा एक पूर्व ई ओ आई बैठक का आयोजन किया जाएगा। तदुपरांत, आर एफ पी में मांगे गए विवरण के साथ विक्रेताओं को इच्छा की अभिव्यक्ति की प्रतिक्रिया प्रस्तुत करना होगा।

A Pre-Eoi meeting will be arranged by U.R. Rao Satellite Centre, Bengaluru in order to have a better understanding of the activities involved, clarify doubts, if any.

Subsequently, the vendor(s) shall submit the response to Expression of Interest along with the details sought in RFP

सुरक्षा अनुमति की व्यवस्था करने हेतु इच्छुक विक्रेताओं को निर्दिष्ट प्राधिकार को सारणी -1 में विनिर्दिष्टानुसार नियत दिनांक से पहले पूर्व ई ओ आई प्रतिनिधियों का विवरण प्रदान करना है। विक्रेता के प्रतिनिधि, को पूर्व ई ओ आई बैठक में उपस्थित होने हेतु एक "प्राधिकार पत्र" लाना होगा। सदस्य प्रतिनिधियों की संख्या एक बोली कर्ता/कंपनी/संगठन से अधिकतम दो (2) होगी।

Interested Vendor[s] may please provide the details of the representative[s] taking part in the Pre-Eoi meeting well in advance prior to dates specified in Table-1 to the Focal Point in order to arrange for Security clearance. Vendor[s] representative shall carry an "Authorization Letter" for attending the Pre-Eoi meeting. Member Representative shall be limited to maximum of two (2) per bidder/company/organisation

विक्रेता द्वारा पूर्व- ई ओ आई पूछताछ पूर्व ई ओ आई बैठक के दिनांक से 05 दिन पहले यू आर एस सी ई मेल आई डी psoc@urc.gov.in पर प्राप्त होना होगा। किसी भी परिस्थिति में ई ओ आई बैठक के दिनांक को पूर्वित करने/स्थगित करने के अनुरोध पर विचार नहीं किया जाएगा।

Pre-EOI Queries from vendor [s] shall reach URSC 5 days prior to date of Pre-EOI meeting to Mail ID: psoc@ursc.gov.in. Please note that request for "Pre-ponement/postponement of Pre-Eoi meeting" will not be entertained under any circumstances.

उपरोक्त सभी जानकारी के साथ इच्छा की अभिव्यक्ति नीचे दिए गए पते पर, उपरोक्त संदर्भ संख्या का उल्लेख करते हुए, नियत तिथि और समय तक पहुंच जानी चाहिए।

"Expression of Interest" with all the above information shall reach the address given below, quoting the above Reference Number on or before the due date & time.

वरिष्ठ प्रधान, क्रय एवं भंडार/Sr. Head, Purchase & Stores
यू आर राव उपग्रह केंद्र/U R Rao Satellite Centre,
एचएएल एयर पोर्ट रोड/HAL Airport Road,
विमानपुरा पोस्ट, बेंगलूरु/ Vimanapura Post, Bengaluru 560 017,
कर्नाटक, भारत/Karnataka, India

कृपया ई ओ आई बैठक संख्या का उल्लेख करते हुए अपने स्पष्टीकरण ई-मेल पर भेजें: psoc@ursc.gov.in पूर्व ई ओ आई बैठक में भाग लेने के लिए अनुरोध 30.10.2026 16:00 IST या उससे पहले यहाँ उल्लिखित ई-मेल पर पहुँच जाना चाहिए। तथापि ई ओ आई का जवाब (हार्डकॉपी) केवल ऊपर उल्लिखित डाक पते पर भेजा जाएगा। ईमेल और फैक्स कोटेशन स्वीकार्य नहीं हैं। नियत तिथि और समय के बाद प्राप्त कोटेशन स्वीकार्य नहीं हैं।

Please address your clarifications quoting the EOI number to E-mail: psoc@ursc.gov.in. Request for participation in Pre-Eoi meeting shall reach on or before 30.10.2026 16:00 @ Hrs IST to the Email mentioned herein. However, response to EOI (hardcopy) shall be sent to above mentioned postal address only). E-mail & Fax quotations are not acceptable. Quotation received after due date & time are not acceptable.

तालिका 1

Table 1:

ई ओ आई विवरण की प्रस्तुति Submission of EOI Details	
स्पष्टीकरण प्रस्तुत करने की अंतिम तिथि Last date of submission of clarification	30.10.2026 16:00 Hrs IST
पूर्व-ईओआई बैठक (सम्मेलन कक्ष, स्वगत कक्ष, यू आर एस सी में): Pre-EOI meeting (At PSG Conference Hall/ SRG Conference Hall URSC)	06.11.2026 10:00 Hrs IST
ईओआई प्रस्तुत करने की अंतिम तिथि Last date for submission of EOI	07.12.2026 14:00 Hrs IST
ई ओ आई की खोलने की तिथि Opening date of EOI	07.12.2026 14:30 Hrs IST

उपरोक्त सभी जानकारी के साथ इच्छा की अभिव्यक्ति **07.12.2026 @ 14:00 IST** बजे तक या उससे पहले उपरोक्त संदर्भ संख्या का उल्लेख करते हुए, नीचे अधोहस्ताक्षरी को पहुँच जानी चाहिए। यह प्रस्ताव पूर्व-ईओआई अर्हता के रूप में आरंभ किया गया है। यूआरएससी बिना कोई कारण बताए सभी या किसी भी इच्छा की अभिव्यक्ति को स्वीकार या अस्वीकार करने का अधिकार सुरक्षित रखता है।

“Expression of Interest” with all the above information shall reach the undersigned, Quoting above Reference Number on or before **07.12.2026 @14:00 Hrs IST**. This proposal is initiated as a Pre-EOI Qualification. URSC reserves the right to accept or reject all or any such “Expression of Interest” without assigning any reasons what so ever.

हस्ता/signed-
वरिष्ठ प्रधान, क्रय एवं भंडार
Sr. Head, Purchase & Stores

**EXPRESSION OF INTEREST (EOI) FOR
REALIZATION OF SPACE QUALITY S-P
CONFIGURED BATTERIES**

**U R RAO SATELLITE CENTRE
BENGALURU**

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ABBREVIATIONS:

COTS:	Commercial Off The Shelf
EOI:	Expression of Interest
EV:	Electric Vehicle
FIM:	Free issue Material
ISRO:	Indian Space Research Organisation
KIP:	Key Inspection Point
Li-ion:	Lithium-ion
LLP:	Limited Liability Partnership
MIP:	Mandatory Inspection Point
NC:	Non-Conformance
NDA:	Non-Disclosure Agreement
QA:	Quality Assurance
RFP:	Request for proposal
S-P or SP:	Series-Parallel
URSC:	U. R. Rao Satellite Centre

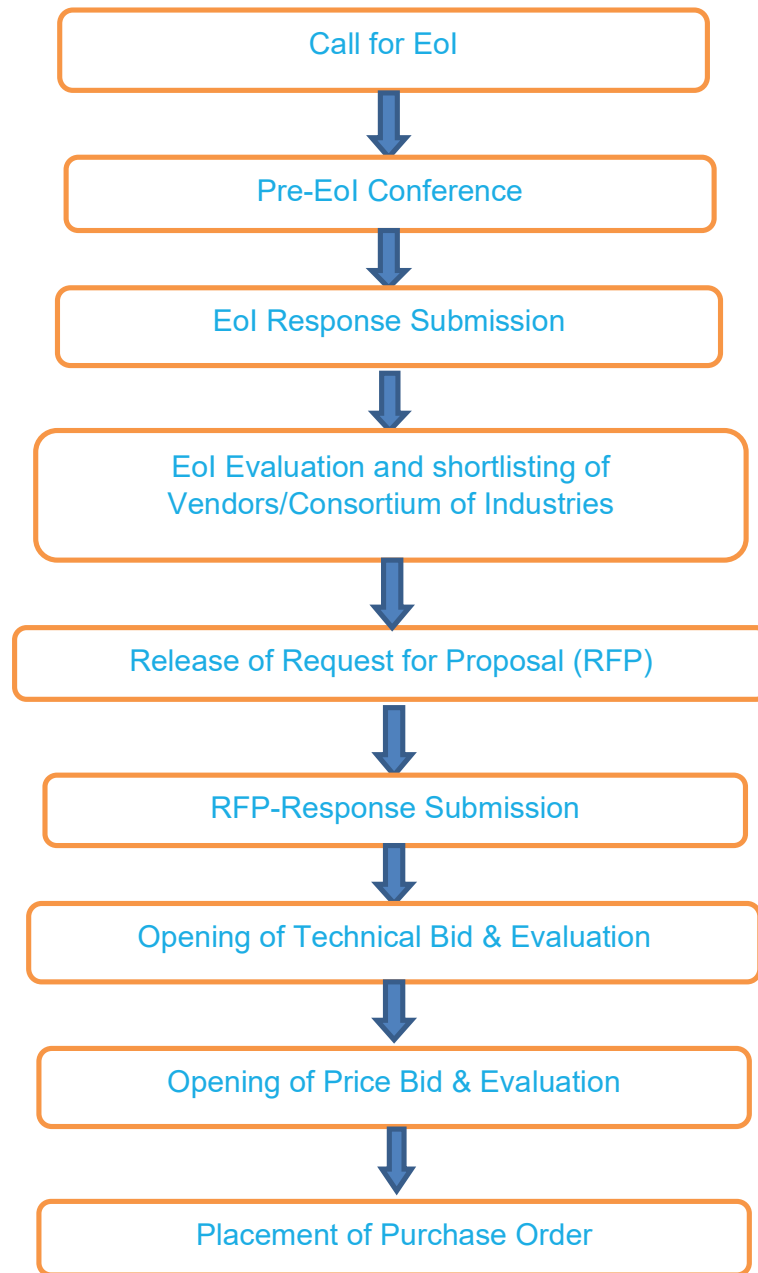
1. INTRODUCTION

- 1.1 U. R. Rao Satellite Centre (URSC) is one of the leading centres of the Indian Space Research Organisation (ISRO), Department of Space (DOS), Government of India. It is responsible for Design, Development, Assembly, Integration & Testing of Satellites for various Communication, Remote sensing, Scientific & Interplanetary missions. URSC is looking forward to scale up industry participation in satellite building activities and is planning to involve industries to take up end-to end Realization of space quality battery activities. BHEL is presently involved in realisation of standard batteries as production entity.
- 1.2 The proposed end-to-end realization of battery involves material procurement, fabrication, assembly, testing and supply to ISITE/ URSC. Supplied battery shall meet the specifications and requirements as set by URSC. URSC is planning to develop 2nd vendor and is open to transfer the technology of battery realization to the qualified industries, if required.
- 1.3 The technical proposal for this EoI will be evaluated on the basis of vendor's experience, their understanding the scope of work, facility / infrastructure, skilled human resources and the financial strength of the industry.
- 1.4 URSC is looking for potential vendors/consortium of industries who can carry-out the end-to-end realization of batteries. They only are requested to participate in the EoI. The already existing partner in battery realisation is not required to participate in this EoI and further related processes.
- 1.5 The EoI proposals from vendor / consortium of industries will be critically evaluated based on the compliance matrix as given in this document.

2. OBJECTIVE

- 2.1 The main objective of this EoI is to invite vendors/consortium of industries to carry out the fabrication, assembly & testing of S-P configured batteries. End-to-End realization involves procurement of capital equipment, on-board consumable materials, ground consumables, tools, jigs and fixtures. Vendor is expected to carry out fabrication of elements, battery assembly, testing and delivery to URSC/ISITE. Built to design batteries shall meet the specifications and requirements as set forth by URSC.

3. PROCEDURE FOR FINALIZING CONTRACT



Note:

1. Consortium shall be headed by single agency who will be focal point to URSC.
2. Authorized team members from URSC will visit vendor's facilities to ascertain the availability of infrastructure/facilities.

4. SCOPE OF WORK

Vendor is responsible for end-to-end realisation of batteries which involves cell testing (screening and matching), elements fabrication, battery assembly and testing of Lithium ion batteries confirming to the quality standards for space applications and preparing associated

documentation and reports. The contract will be for a period of 5 years. It is extendable by one more year on mutual consent on same terms & conditions.

The entire activity shall be carried out as per the procedure of URSC with relevant in-process QC checks as spelt out by URSC and records maintenance as per formats of URSC/ISRO. URSC will provide free issue material (FIM), namely, cells, Fuse PCB's, as well as drawings, process and process control documents, test procedures including storage and maintenance procedures.

URSC Scope

- *Supply of cells & Fuse PCB's to vendor
- *Supply of relevant drawings and documents for assembly, testing
- *Procurement specifications of capital equipment, jigs & other items from preferred sources.
- *Specification of direct & indirect materials from preferred sources.
- *Storage and packing instructions
- *One-time Training and qualification of vendor staff
- *Approval of facility

VENDOR Scope

Cell screening & Selection

- *Ordering of materials (Electrical, Hardwares, Adhesives etc and Inventory control
- *Receipt & inspection of materials
- *Fabrication of Jigs & fixtures
- *Fabrication of all elements

- *Anodizing components & acceptance

- *Helicoil fixation & acceptance

- *Fabrication related activities (Assembly, Samples/coupons Testing)

- *Assembly of Battery & logging of records

- *Battery acceptance testing

- *Vibration & Thermovac testing

- *Preparation of test report, presentation material, submission of all reports and log books to URSC

- *Test Results for Review at URSC

- *Delivery to URSC

5. TRANSFER OF TECHNOLOGY

ISRO has launched many satellites for various applications viz., Communication, Remote sensing, Scientific & Interplanetary missions. URSC is responsible for realization of satellites. As part of satellite realization, all batteries are designed & developed by URSC and has enough space heritage. The flight battery realization is a vital, critical and crucial process activity. In this regard, URSC is open to transfer the technology which involves process related activities like elements fabrication, assembly of battery, welding of series tabs and parallel bus bars, testing of batteries and evaluation, etc., The technology will be transferred to only qualified vendor as per URSC procedures.

6. QUANTUM OF WORK

It is envisaged that requirement of end-to-end realization of batteries is for about 5 years' period to meet the demand. The batteries of various configuration are to be realized using Lithium ion COTS cells.

Realisation of space grade batteries requires expertise, special skill, infrastructure and capital equipment.

Vendor is needed to realise Li-ion batteries of various Series Parallel (*S-P*) configurations/energy (watt-hour).

The quantum of work will be: A minimum of 5kWh batteries per year during the contract period of 5 years.

7. A maximum of 75kWh of batteries for the contract period of 5 years. The maximum kWh in the 5-year period may be extended to ~100kWh.

8. RESOURCES

In order to carry out the above scope of work, the vendor is expected to have qualified, experienced and trained human resources. The vendor shall have adequate engineering, supervisory and artisan level personnel for fabrication, assembly and testing of batteries.

9. RESPONSIBILITY

The responsibilities of vendor and URSC are listed in following subsections

8a. Responsibility of vendor:

- a. Establish the required facility at the premises of the vendor for carrying out cell screening / matching, fabrication, assembly and testing of flight batteries.
- b. Procure the capital equipment/ minor equipment for assembly and testing of batteries.
- c. Vendor shall make the necessary arrangements for civil and electrical infrastructure required.
- d. Calibration and maintenance/servicing of the capital equipment.
- e. Fabricate mechanical jigs fixtures and procurement of tools needed for fabrication, assembly and testing of batteries.
- f. Procure and test the flight/ground materials and consumables required for fabrication, assembly and testing of batteries.
- g. Vendor shall also establish facility for storage of cells during fabrication of batteries and temporary storage for batteries.
- h. Carry out the realisation and testing of flight batteries as per the process control document and test procedures given by URSC while following all Quality Assurance (QA) guidelines.
- i. Prepare, maintain and supply necessary documentation of all activities meeting quality standards.
- j. Handling, packing and transportation of flight materials supplied by URSC and delivery of finished product, unused/rejected materials.
- k. Establish a quality management system for on-line quality control, NC reporting and NC management.

- l. Employee sufficient skilled. First time training of technicians & supervisors shall be by URSC. Any replacement of trained personnel needs to be trained by vendor, if needed and shall ensure relevant certification by URSC.
- m. The vendor shall also establish suitable safety practices for personnel safety, facility and hardware safety.
- n. Vendor shall be responsible for the screening and matching of Li-ion cells, fabrication, assembly and testing of Lithium ion batteries (S-P configuration). The hardware delivered by vendor shall meet the acceptance specifications laid down in the documents supplied by URSC.
- o. Asset register to be maintained for all the equipment procured by vendor as specified by URSC.
- p. Record to be maintained and produce on demand for the FIMs issued by URSC for its usage / return / traceability.
- q. Vendor shall maintain the facility to meet the assembly and testing standards as per the URSC guidelines.
- r. Maintain register with calibration details for all equipment.
- s. Relevant documentation (hardcopy and softcopy) as per the ISO2000-2015/AS9100D standards. Vendor has to deploy personnel for documentation work and also for maintaining material movement gate passes, their timely closures for all the material movement between URSC and vendor or vice versa.
- t. Work order completion for specified quantity within indicated timeframe.
- u. If any new item (component /element / material / process) is introduced as replacement to the existing design, URSC shall support for one battery realization with the new item from the date of implementation. Afterwards, vendor shall procure the same for realization of batteries.
- v. Work performed shall be strictly in accordance with the acceptance specifications of URSC.

8b. Responsibilities of URSC/ISRO

- a. URSC will have steering and monitoring committee to monitor the progress of the work of the facility build up and subsequently the flight hardware realization.
- b. Inspect and certify the facility established at the vendor's premises.
- c. Identify the list of capital equipment, its procurement specifications and suppliers list, if needed by the vendor.
- d. Assist the vendor in finalizing the capital equipment and its installation & acceptance.

- e. Provide engineering drawings of the jigs & fixtures required for fabrication & testing.
- f. Train on-time and certify the supervisors, and technicians of the vendor on the identified activities to be carried out by the vendor.
- g. Provide necessary process and testing documents.
- h. Provide necessary inputs to the vendor regarding specification, supplier for the procurement of consumables, flight /ground materials and equipment for assembly and testing of batteries.
- i. Liaison with vendor throughout the contract period.
- j. In case of any major design change (any additions/deletion of w.r.t existing design for fabrication or testing activities), then financial impact shall be mutually discussed and agreed by both the parties for suitable remedies. URSC shall provide FIMs wherever there is a major change in design.

10. TECHNICAL EVALUATION MATRIX

The technical evaluation matrix is prepared considering the expertise available with respect to fabrication, assembly and testing of flight batteries, availability of infrastructure and vibration, environmental test facilities. As per the scope of the EoI, vendor / consortium of industries (form K) are expected to carry out end-to-end realization of space grade batteries.

S. No.	Criteria	Marks	Response form vendor
1.	Experience in assembly & testing of Aerospace, EV, other batteries and space flight heritage	40	Form A, B, C
	a) *Fabrication of batteries, testing of batteries and related documents (10 marks Max) Criteria: Aerospace (10 marks) EV (7 marks) Others (5 marks) None (0 marks) *1/3 for each activity		• Proof of end-to-end realization of batteries (Proof like photographs, Reports, log sheets). • Purchase order / Delivery document with a certification for successful completion and supply of Aerospace, EV qualified or other batteries
	b) Fabrication of battery elements (5 marks) Cells screening, matching. (5 marks)		
	c) Experience of assembly, welding or equivalent, wiring of batteries (5 marks)		
	d) Purchase order and hardware delivery in previous one year (2.5*2=5 marks)		
	e) Space flight heritage for any hardware delivered (10 marks)		
	Remarks: Minimum qualifying marks: 20 out of 40.		

S. No.	Criteria	Marks	Response form vendor																												
2.	Facility Infrastructure a) Clean room of class Environment control with RH with RH 55±5% and temperature 22±2deg C. Class 1,00,000 or better cleanliness (10 marks) b) Lab of minimum area 1200 sq-ft (10 marks) c) Availability of ESD facility for handling electronics (10 marks).	30	Form D • Photographic evidence to be provided as part of bid submission. • The evidence provided as part of the bid will be verified at the vendor premise, if reqd.																												
	Remarks: Minimum qualifying marks: 10 out of 30.		Form D Documentary Proof of certified facility/ utilizing the facility of others including sizes.																												
3.	Technical Manpower: The following technical man power with at least 1year experience with technical background as on date of submission of EOI. <table border="1" data-bbox="298 835 928 1516"> <thead> <tr> <th>S.No.</th><th>Discipline</th><th>Experience</th><th>Marking scheme</th></tr> </thead> <tbody> <tr> <td rowspan="3">1.</td><td rowspan="3">ITI</td><td>Between 1 to 2 years</td><td>2 marks</td></tr> <tr> <td>Between 2 to 3 years</td><td>3 marks</td></tr> <tr> <td>More than 3 years</td><td>4 marks</td></tr> <tr> <td rowspan="3">2.</td><td rowspan="3">Diploma</td><td>Between 1 to 2 years</td><td>3 marks</td></tr> <tr> <td>Between 2 to 3 years</td><td>4 marks</td></tr> <tr> <td>More than 3 years</td><td>6 marks</td></tr> <tr> <td rowspan="3">3.</td><td rowspan="3">BE/ B.Tech</td><td>Between 1 to 2 years</td><td>5 marks</td></tr> <tr> <td>Less than 2 years</td><td>7 marks</td></tr> <tr> <td>More than 3 years</td><td>10 marks</td></tr> </tbody> </table> Remarks: Minimum qualifying marks: 10 out of 20.	S.No.	Discipline	Experience	Marking scheme	1.	ITI	Between 1 to 2 years	2 marks	Between 2 to 3 years	3 marks	More than 3 years	4 marks	2.	Diploma	Between 1 to 2 years	3 marks	Between 2 to 3 years	4 marks	More than 3 years	6 marks	3.	BE/ B.Tech	Between 1 to 2 years	5 marks	Less than 2 years	7 marks	More than 3 years	10 marks	20	Form E, F and G
S.No.	Discipline	Experience	Marking scheme																												
1.	ITI	Between 1 to 2 years	2 marks																												
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		More than 3 years	4 marks																												
2.	Diploma	Between 1 to 2 years	3 marks																												
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		More than 3 years	6 marks																												
3.	BE/ B.Tech	Between 1 to 2 years	5 marks																												
		Less than 2 years	7 marks																												
		More than 3 years	10 marks																												
4.	Financial Strength of the industry: Revenue from operations – minimum Rs.10Crores per year. <u>Note:</u> Average revenue of past 3 years shall be considered for evaluation Remarks: It is mandatory and qualifying marks - 10	10	Form H, I and J																												

	TOTAL MARKS	100	
Minimum marks to pass/qualify: 50 marks			

NOTE:

- The EoI proposals from vendor / consortium of industries will be evaluated based on the compliance matrix (form L) as given in this document.**
- Vendor should provide complete details and compliance to the technical specifications & requirements as per the EOI. Mere ‘YES’ as compliance is not acceptable for technical specifications. Incomplete details shall be considered as non-compliance and is liable for rejection.**

11. ELIGIBILITY AND EVALUATION CRITERIA

A detailed list of the vendor qualification criterion is provided in technical evaluation matrix. The interested vendor/consortium of industries shall produce necessary documentary evidence to prove their capability to execute the above hardware at the time of EoI submission. These responses will be evaluated and eligible vendors selected by URSC based on the details provided.

- It is to be noted that, EoI responded vendor /consortium of industries only are eligible to participate in RFP.**
- Vendor shall submit compliance matrix with supported documentary evidence as asked without fail.**
- In case of EoI with consortium, it shall clearly identify the lead of consortium and further correspondence will be entertained only with the lead vendor.**

Eligibility Criteria:

- The EoI responded vendor /consortium of industries should be a company registered under Indian Companies Act 1956 or a firm registered under Limited Liability Partnership (registered under LLP Act, 2008). The industry should have been in existence for a minimum of three (3) years in India.
- The EoI responded vendor /consortium of industries should not have been blacklisted by any Central/State Government institution. A signed declaration to this effect must be submitted along with the expression of interest.

Evaluation Process:

- URSC will have a technical evaluation committee (referred as the Committee here after) to evaluate the responses received against EoI.
- The Committee shall also evaluate all supporting documents & documentary evidence. If EoI responded vendor /consortium of industries does not submit requisite supporting documents or documentary evidence, it may lead to rejection of the EoI proposal.
- Each of the responses shall be evaluated to validate compliance according to the eligibility criteria, technical evaluation forms and the supporting documents specified in this document.
- The decision of the Committee in the evaluation shall be FINAL. NO correspondence will be entertained outside the evaluation process of the Committee.

- e) As part of evaluation of EoI proposals, authorized team from URSC will visit the vendor facilities to confirm the availability of facilities/infrastructure with a prior notice. The evaluation of vendors will be based on response forms and verification of the same during the industry visit.
- f) The TEC reserves the right to reject any or all proposals.
- g) The Technical proposal will be evaluated on the basis of vendor's experience, its understanding of scope of services, facility infrastructure, proposed methodology and work plan, skilled manpower and the financial strength of the industry. **EoI responded vendor / consortium of industries require minimum technical score of 50 out of 100 as per technical evaluation matrices. Those responses are only declared as qualified for further evaluation. Responses securing less than 50 marks shall be rejected.**

A Request for Proposal (RFP) will be issued to the short- listed (i.e. qualified) **EoI responded vendor /consortium of industries** from this EoI and asked to submit their detailed technical proposal and price (Two-part bid).

12. RESPONSE FORMS

Form – A: General details of the industry

1	Name of the Industry	
2	Year of Establishment	
3	Core capabilities of the industry	Type brief profile of the industry not more than 2 pages (Any other report/s can be provided as Annexure)
4	Head office location and address with contract number & email id:	
5	Local address in Bangalore, if any, with contact number & email id:	
6	Addresses of manufacturing and/or operational setup in India (Highlight the address where URSC representative will visit for audit)	1. 2. 3.
7	Corporate website URL:	

Form B - Experience in Aerospace/EV sector/ other battery industry: In case the industry is having/had any purchase order/work order/contract onwards in battery realization and testing to provide the details in the specified format for each work order.

Name of the Aerospace / EV / other battery Industry	
Scope of work	
PO Details	
Present Status of the PO	
Type of System*	
Application **	
In any part of the above work subcontracted to other industries? If yes provide the details	
Name of the sub-contracts	Description of activity outsourced to sub-contractors

*Indicate whether it is electrochemical/electronics/electrical/mechanical/propulsion/ software or any other system.

** Mention if the system is for on-board a spacecraft or ground or any other use in the above table format.

Purchase order - 1 (use above table format)

Purchase order - 2 (use above table format)

Purchase order - 3 (use above table format)

Purchase order - 4 (use above table format)

Purchase order - 5 (use above table format)

Note: the copies of purchase orders to be enclosed as annexure

Form C: Are you an offset Partner/Subcontractor to any foreign industry (Prime contractor of any major Aerospace sector related contracts from India?) If yes, provide the details in the given format

S. No	Name of the Foreign Industry with Address	Name of the project (specify total contract value)	Responsibility of Prime Contractor	Responsibility of offset partner i.e. your firm (specify total sub-contract value)

Form D: Infrastructure Capabilities

List of major infrastructures presently available to carry out battery realization activities

S.No.	Name of Infrastructure/ Facility	Year of Commissioning	Brief Specifications	Utilization Status (Operational status)
1	Clean room of class 1,00,000 or better RH 55±5% and temperature 22±2deg C.			
2	Lab of minimum area 1200sq-ft with height of 4m or better.			
3	Availability of ESD facility for handling electronics			

Form E: Technical manpower details

S.No	Streams/discipline	Engineering	Diploma	ITI
1.	Mechanical			
2.	Electronics and Communications / Electrical			
3.	Others			
	Total			

Form F: Mention the levels of technical hierarchical structure (from entry level to highest cadre) of your organization.

Form G: Whether the Industry has the similar experience of providing technical/skilled manpower support to any Government/Public sector Industry (in Aerospace/EV Sector/other battery industries). If yes, provide the following details:

S.No.	Name of the organization supported	Scope of work	No. of people deployed	Remark

Form H - Financial Details

Financial information of Industry /Lead Industry in case of consortium

Heads	FY 2023-24	FY 2024-25	FY 2025-26
Revenue from operations (in INR Crores)			
EBTD (Earnings Before Tax and Depreciation)			
% of Revenue from Aerospace Segment/Unit			
Net Worth			
Share capital			
% of shareholding by Indian Investor			
% of Shareholding by Foreign Investor			

Form I - Provide the Shareholding Pattern of the Industry of the given format

Sl. No.	Category of Shareholder	No. of Shareholders	% of shareholding
Total			100%

Form J: Mandatory supporting documents

- I. Auditor certified statements for the last three years, FY 2023-24, FY 2024-25 and FY 2025-26 as Annexure (please provide the profit and loss statement and balance sheet)
- II. Unaudited certified statements certified by the company auditors for the latest year 2025-26 (in case auditor certified statement for 2025-26 is not available).
- III. Certification by the company auditors supporting the revenue break up.

Form K – Consortium

In order to meet the scope of this contract, whether the Industry has formed a Consortium or equivalent association with any other India agency? Yes/No

if yes, provide the following details of the consortium partners

Agreement copy to be provided

Parameter	Consortium partners			
	Industry 1	Industry 2	Industry 3	Industry 4
Name & address				
Brief description of major work executed for ISRO Centres or any other space industry (mention any one)				
Date of Consortium Agreement				
Technology association of partner				
Infrastructure association of partner				
Manpower/ Workforce support of partner				
Financial support of partner				

Form L: Acceptance of Compliance Matrix – to be filled by industry

Compliance Matrix			
section	Description	Compliance (yes/no)	Remarks
1	Acceptance of Introduction		
2	Acceptance to EoI objectives		
3	Acceptance to Procedure for finalizing contract		
4	Acceptance of Transfer of Technology		
5	Acceptance of Scope of work		
6	Acceptance of Quantum of work		
7	Acceptance to Resources		
8	Acceptance to Responsibility		
9	Acceptance to Technical evaluation matrix		
10	Acceptance to Eligibility and Evaluation Criteria		
11	EoI Response Forms duly filled		
Organisation shall sign a Non-Disclosure Agreement (NDA) with URSC, before the pre-EOI meeting and if purchase order is awarded			