



भारत सरकार / Government of India
अंतरिक्ष विभाग / Department of Space
यू.आर. राव उपग्रह केंद्र / U.R.RAO SATELLITE CENTRE
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23.04.2026

परिशुद्ध यांत्रिकी संविरचन हेतु दर संविदा के लिए इच्छा की अभिव्यक्ति का आमंत्रण(ई ओ आई)
Invitation for Expression of Interest [EOI] for Rate Contract for Precision Mechanical Fabrication

अंतरिक्ष विभाग, भारत सरकार के अंतर्गत भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) का यू आर राव उपग्रह केंद्र (यू आर एस सी), भारत-निर्मित सभी उपग्रहों के अभिकल्पन, विकास, संविरचन तथा परीक्षण का अग्रणी केंद्र है। अंतरिक्षयान निर्माण के प्राधिकार के परिणामस्वरूप, केन्द्र अपने भारतीय राष्ट्रीय उपग्रह के लिए प्रासंगिक अत्याधुनिक प्रौद्योगिकियों के विकास में संलग्न है।

U. R. Rao Satellite Centre [URSC] of Indian Space Research Organisation [ISRO] under Department of Space, Government of India is the lead Centre of ISRO for Design, Development, Fabrication and Testing of all Indian made satellites. As a sequel to its mandate of spacecraft realisation, the Centre is engaged in the development of cutting-edge technologies of relevance to its Indian National Satellite.

यू आर एस सी, भारतीय उद्योगों/विक्रेताओं से परिशुद्ध यांत्रिकी संविरचन के लिए दर-संविदा हेतु इच्छा की अभिव्यक्ति आमंत्रित करता है। पर्याप्त ज्ञान, अनुभव/विशेषज्ञता और सुदृढ़ वित्तीय पृष्ठभूमि वाले संभावित प्रतिष्ठानों/विक्रेताओं से यू आर एस सी, बेंगलुरु के लिए उपर्युक्त कार्यों को निष्पादित करने हेतु इच्छा की अभिव्यक्ति आमंत्रित की जाती है।

URSC invites the Expression of Interest [EOI] from Indian Industries/ Vendors for "Rate Contract for Precision Mechanical Fabrication". Potential Establishment[s]/Vendor [s] having sufficient know-how, experience/expertise and sound financial background are invited to express their interest to carry out above mentioned activities for URSC, Bengaluru.

ई.ओ.आई. दस्तावेज में संक्षिप्त विवरण उपलब्ध हैं, जिसे हमारे वेबसाइट www.isro.gov.in (निविदा सूचनाएँ के अंतर्गत) से डाउनलोड किया जा सकता है।

Brief description is available in the EOI document which can be downloaded from our website www.isro.gov.in (under 'Tender Notices').

ई.ओ.आई. का मूल्यांकन बोली लगाने वाले के अनुभव, कार्यक्षेत्रों की उसकी समझ, उसकी सुविधा अवसंरचना, प्रस्तावित कार्यविधि एवं कार्य-योजना, उसकी कुशल श्रमशक्ति तथा उसके उद्योग के वित्तीय सामर्थ्य के आधार पर किया जाएगा। साथ ही, ई एम हार्डवेयर की आपूर्ति के लिए सुदृढ़ इंजीनियरिंग, अभिकल्पन एवं विश्लेषण पृष्ठभूमि के साथ वह भारतीय उद्योग होना चाहिए।

The EOI will be evaluated on the basis of bidder's experience, its understanding of scope of services, facility infrastructure, proposed methodology and work plan, skilled manpower and the financial strength of the industry. Also, Indian Industry with strong engineering, design and analysis background for the delivery of EM Hardware.

यू.आर.एस.सी आवश्यकता पड़ने पर ई.ओ.आई. की प्रक्रिया रद्द करने या और सूचनाएँ/ब्यौरे मांगने के लिए इसे पुनः जारी करने का अधिकार 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.

किसी भी प्रकार की भ्रष्ट या धोखाधड़ीपूर्ण गतिविधियों में लिप्त पाई गई कंपनियों/फर्मों को निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा और उनके ई ओ आई 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.

ई ओ आई प्रत्युत्तर का समापन /Completion of the EOI Response:

तदुपरांत, विक्रेताओं को निम्नलिखित विस्तृत जानकारियों के साथ इच्छा की अभिव्यक्ति का प्रत्युत्तर प्रस्तुत करना होगा।

Subsequently, the vendor (s) shall submit the response to Expression of Interest along with the following information in detail:

1.	फोन, फ़ैक्स, ईमेल, वेब आदि सहित पंजीकृत पता Registered address with Phone, Fax, Email, Web etc.
2.	स्वामित्व, साझेदारों, बोर्ड के निदेशकों के नाम एवं पते के साथ कंपनी/संगठन की स्थिति (पी एस यू/स्वामित्व/साझेदारी/निजी लि. आदि) Company/Organization Status (PSU / Proprietary / Partnership / Private Ltd., etc.) with Name and Address of Proprietor, Partners, Board of Directors etc.
3.	सहयोगी: (क) भारतीय (ख) विदेशी: व्यापार साझेदारी का प्रतिशत (यदि कोई हो) Associates: (a) Indian (b) Foreign: Percentage of business partnership (if any).
4.	पूरे पते और संपर्क किए जानेवाले व्यक्तियों के विवरणों के साथ प्रमुख ग्राहकों की सूची List of Major Customers with full address and their Contact Persons Details.
5.	कार्यों को निष्पादित करने के लिए स्वामित्वाधीन या उपलब्ध अवसंरचना सुविधाओं के विवरण Details of Infrastructure Facilities owned/available to carry out activities.
6.	नवीनतम वार्षिक रिपोर्ट की प्रति सहित पिछले तीन वित्तीय वर्ष (31 मार्च 2025 को समाप्त वर्ष) हेतु लेखा परीक्षित वित्तीय विवरण

	Audited Financial Statements for the preceding Three Financial Years (year ending 31 March, 2025) with copy of latest Annual report.
7.	उपलब्ध वित्तीय क्षमता/क्रेडिट सुविधाएँ Financial Capacity/Credit facilities available.
8.	बैंकों के नाम व पते Name and Address of Bankers.
9.	व्यापार संघ, जिससे उद्योग संबद्ध है Trade Association to which industry belongs to
10.	प्रतिष्ठान/ बिक्री/जी एस टी पंजीकरण तथा पैन संख्या Establishment/Sales/GST Registration and PAN Number.
11.	व्यापार का प्रकार Nature of Business
12.	उनके बैंकों द्वारा जारी फर्म की ऋणचुकाने की क्षमता/वित्तीय क्षमता । Solvency/Financial capacity of the Firm issued by their bankers
13.	उद्योगों की अन्य कोई प्रासंगिक जानकारियाँ Any other information of the industries considered relevant.
14.	सामर्थ्य और कमियों के क्षेत्रों का स्पष्टतः प्रकट करते हुए कंपनी का/कंपनियों के प्रोफाइल The Profile of the Company/ies clearly bringing out the areas of Strength and Weaknesses
15.	ई ओ आई में भाग लेने के लिए तकनीकी तथा संगठनात्मक सामर्थ्य का स्व-मूल्यांकन Self-Assessment of Technical and Organisational competence to take part in the EOI
16.	ई ओ आई में यथा-उल्लिखित प्रत्युत्तर प्रपत्र Response forms as mentioned in the EOI
17.	कंपनी के प्रमुख शेयरधारकों के नाम व पते तथा उनकी शेयर पूँजी के प्रतिशत Name and addresses of the major shareholders of the Company and the percentage of their share capital.

तालिका/Table-1:

ई ओ आई विवरण की प्रस्तुति Submission of EOI Details	
स्पष्टीकरण प्रस्तुत करने की अंतिम तिथि Last date for submission of clarification	04-05-2026 10:00 Hrs. IST
पूर्व ई ओ आई बैठक हेतु अनंतिम तारीख (अनिवार्य नहीं) Tentative dates for pre-EOI meeting (non-mandatory)	06-05-2026 10:00 Hrs. IST & 07-05-2026 10:00 Hrs. IST
ई ओ आई का प्रत्युत्तर प्रस्तुत करने की अंतिम तिथि Last date for submission of response to EOI	29-05-2026, 1300 Hrs. IST
ई ओ आई खुलने की तिथि Opening date of EOI	29-05-2026, 1400 Hrs. IST

ई ओ आई का पूर्ण प्रत्युत्तर उपर्युक्त तालिका-1 में निर्धारित तिथि एवं समय पर, लेकिन उसके बाद नहीं, यू आर एस सी में नीचे दिए गए पते पर प्राप्त होना चाहिए। अनुलग्नक में उल्लिखित नियम व शर्तों के अनुसार, यांत्रिकी संविरचन के लिए दर-संविदा हेतु हमारी संदर्भ संख्या एवं तिथि मोहर बंद लिफाफे के ऊपर लिखकर, विस्तृत सूचियों/पुस्तिकाओं/साहित्य सहित कृपया ई ओ आई संलग्न निविदा प्रपत्र के साथ प्रस्तुत करें।

Complete response to EOI must be received at URSC to the address given below, not later than date and time specified above in Table-1. Please submit your sealed EOI, in the Tender Form enclosed here along with the descriptive catalogues/pamphlets/literature, superscribed with our Ref. No. and Due Date for EOI for Rate Contract for Mechanical Fabrication as per the terms & conditions mentioned in Annexure.

व. प्रधान, क्रय व भंडार /Sr. Head, Purchase & Stores

यू आर राव उपग्रह केन्द्र/ U R Rao Satellite Centre,

एच ए एल एयरपोर्ट रोड/ HAL Airport Road

विमानपुरा डाक, बेंगलूरु-560017, भारत

Vimanapura Post, Bangalore – 560017, India

ईमेल/E-mail: ps0_e@ursc.gov.in

दूरभाष/Ph No.: 080 2508 4018

ई ओ आई के प्रत्युत्तर में संपर्क किए जाने वाले व्यक्ति के पदनाम, उचित संपर्क संख्या तथा ई-मेल सहित उसका नाम शामिल होना चाहिए।

Response to EOI must also include the name of the point of contact, together with the designation, appropriate contact number and e-mail address.

इस प्रस्ताव की शुरुआत पूर्व ई ओ आई- योग्यता के रूप में की गई है। चाहे जो भी कारण हो, यू आर एस सी बिना कारण बताए, सभी या इस प्रकार की किसी "इच्छा की अभिव्यक्ति" स्वीकृत या अस्वीकृत करने का अधिकार रखता है।

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.

इस ई ओ आई में यदि कोई शुद्धिपत्र/अनुशेष होगा, तो उसे हमारे वेबसाइट www.isro.gov.in पर डाला जाएगा। Addendum/Corrigendum, if any, to this EOI, shall be hosted at our website, www.isro.gov.in

अस्वीकारण: इस आमंत्रण के अंग्रेजी और हिंदी पाठों के बीच विसंगति या असंगति की स्थिति में अंग्रेजी पाठ को सही माना जाएगा।

Disclaimer: The English version shall always prevail in case of any discrepancy or inconsistency between English and Hindi version of this Invitation.

Sd/-

वरिष्ठ, प्रधान, क्रय व भंडार

SR. HEAD, PURCHASE & STORES

SL. NO	CONTENTS	PAGE NO.
1.	MODUS OPERANDI	01
2.	EOI OBJECTIVE	04
3.	INTRODUCTION TO SATELLITE SUBSYSTEMS	04
4.	INTRODUCTION TO PRECISION MECHANICAL FABRICATION	04
5.	DESCRIPTION AND SCOPE OF WORK DURING OPERATION OF THE RATE CONTRACT/ PURCHASE ORDER	04
5.1	General Scope of Work	04
5.2	Vendor Performance Evaluation	08
6.	PROCEDURE FOR FINALISING CONTRACT	10
6.1	Procedure	10
6.2	Trial Work	10
7.	TERMS AND CONDITIONS	13
7.1	Exemption from qualification process	13
7.2	Organisation Portfolio	13
7.3	Terms & Conditions: General	14
8.	EOI RESPONSE FORMAT	16
8.1	General Details of The Vendor	18
8.2	Mandatory Supporting Documents	19
8.3	Form 'A' Compliance Matrix Table	20
8.4	Form 'B' Compliance Matrix Table	21
8.5	Form 'C' Compliance Matrix Table	25
8.6	EOI Response Format Contents	28

1. MODUS OPERANDI:

The intending Vendor is advised to read the EoI documents, Terms and Conditions and other details carefully relating to the work contemplated for Precision Mechanical Fabrication. The intending Vendor shall mean Single Vendor only and no consortium is entertained. The Vendor shall be deemed to have known the nature, scope and magnitude of the work. Vendor should express the interest only if one considers himself eligible and if is in possession of all documents required as per the EoI. The Vendor is required to study EoI document and express interest after carefully examining all instructions, eligibility criteria, forms, terms, standards and specifications as per the EoI document with full understanding of its implications.

If the Vendor is found ineligible after opening of the EoI, his EoI document shall become invalid *ipso facto*, and costs of the tender document and processing fees, as applicable shall not be refunded. EoI which are not in compliance with our EoI conditions shall be rejected, without assigning any reasons thereof. Failure to furnish all requisite information and/or documents shall result in repudiation of the EoI notwithstanding the foregoing. UR Rao Satellite Centre [URSC], Bengaluru reserves the right to assess the capability of the Vendor to execute the Contract keeping in view the overall interest of URSC. In the event of the Vendor capability and capacity are found to be unsatisfactory, URSC reserves the right to reject the EoI document, without assigning any reasons thereof.

Any neglect or omission or failure on the part of the Vendor in obtaining necessary information as stated above or in any other matter affecting the Vendor, shall not relieve him from any risks or liabilities or the entire responsibility for completion of the Rate Contract/ Purchase Order for Precision Mechanical Fabrication in accordance with the EoI documents followed by the Request for Proposal (RFP) documents and clearance by URSC as and when it happens.

The requirements stated herein below are preferable specifications and URSC reserves the right to request for any additional information and also reserves the right to reject the EoI response of any Vendor, if in the opinion of URSC, the qualification or data is incomplete or if the Vendor is found not qualified to satisfactorily execute the Contract. The Vendor shall bear all costs and expenses associated with preparation and submission of EoI document including post EoI clarifications, discussions, technical and other presentations and execution of trial work, and URSC shall in no case be responsible or liable for such costs, regardless of the outcome of the EoI process. The Vendor shall also not be entitled to claim any costs, charges and expenses incidental to or incurred by vendor through or in connection with the submission of the EoI or its consideration by URSC, even though URSC may choose to modify or withdraw the Invitation to EoI or not to accept the EoI.

At any time prior to the deadline for submission of EoI, URSC may for any reason on its own initiative modify the EoI document by an amendment. The amendment shall be uploaded online on the website. Notwithstanding the above, URSC may at its discretion extend the deadline for submission of EoI in order to afford reasonable time to Vendor to take into account the amendment in preparing the EoI.

All the EoI must be submitted before the time and date fixed for the receipt of EoI as set forth in the EoI document. URSC shall not be responsible for non-receipt of EoI due to any postal delays/loss of EoI documents in transit and delay due to courier, etc. and it shall be the sole responsibility of the Vendor to ensure delivery of the EoI within the time fixed. URSC reserves the right to accept or reject any of the EoI in full or part without assigning any reason thereof. EoI received after stipulated time and date shall be rejected.

EoI documents shall also be uploaded on the URSC website i.e., www.isro.gov.in. Interested Vendor may download the EoI document from website and submit their response to EoI as per details mentioned in the Tender Notification.

URSC, on successful completion of the EoI process may release an RFP based on the revisions in the specifications and other terms as may be agreed upon/felt necessary during the process of the EoI and EoI evaluation. URSC reserves the right to make necessary modification(s) in the specifications/terms at the time of release of RFP or not to release an RFP as a sequel of this EoI. All other standard commercial and regulatory terms and conditions will be released as part of the RFP, which need to be complied and responded by the vendors in the RFP response.

If the EoI opening date happens to be on an unidentified Holiday due to any reason, including *Force Majeure*, tender(s) shall be opened on the next working day.

Vendor shall submit EoI document only in sealed envelopes, super-scribing the Tender Number and the due date of opening of the Tender. The EoI shall be complete in respect of all technical specifications, instructions, drawings, pamphlets and catalogues, as per the EoI document. Failure to furnish all information as per the requirements of the EoI document and submission of EoI not substantially responsive to the EoI document shall render the EoI/Vendor liable for rejection. Any other mode of correspondence (viz. email, fax, etc.) for part/all EoI shall not be considered.

The Vendor should provide along with his EoI document the Name of his Bankers to UR Rao Satellite Centre [URSC], Bengaluru.

NOTE:

The Suppliers need to get enrolled in the e-tender portal (under category: Fabrication Activity and sub activities: Fabrication, Mechanical Fabrication General and Mechanical Fabrication Precision) to access tender and submit

their offer online during Request for Proposal (RFP) stage. Vendor need to have a valid Digital Signature Certificate as detailed on URSC e-portal and corporate e-mail ID to register on the above portal.

2. EOI OBJECTIVE:

MFF/URSC is planning for spacecraft hardware realization through industry participation for Precision Mechanical Fabrication. **URSC is planning to involve technically competent & most competitive additional Vendors to take up the realisation of subsystem mechanical hardware within INDIA (preferably at a distance of overnight journey from Bengaluru for convenient flow of free issue material).**

The purpose of this EoI is to invite proposals from the potential Vendors for consideration. On successful completion of EoI and RFP stage, depending on the response of Vendors and their capabilities, most competitive Vendors shall be selected for entering into Rate Contract/ Purchase Order.

3. INTRODUCTION TO SATELLITE SUBSYSTEMS:

UR Rao Satellite Centre [URSC] is one of the lead Centres of the Indian Space Research Organisation [ISRO] responsible for Design, Development, Assembly and Integration of various class Satellites.

URSC is engaged in building the future generation advanced communication, remote sensing, navigation and space science satellites.

All these spacecrafts mechanical hardware is proposed to be realized through outsourcing in addition to in-house facilities.

Vendor shall provide required support as per the scope of work without compromising on quality. Interested Vendors shall express their interest for the same. The details of URSC's requirements from Vendors are provided in the subsequent chapters.

4. INTRODUCTION TO PRECISION MECHANICAL FABRICATION:

Spacecraft subsystem hardware realization involves precision machining and dimensional inspection. Industries having precision fabrication capability are requested to respond for fabrication services.

This document describes the machines generally required and defines the prerequisites of the Vendor for short listing of Vendors for qualification.

5. DESCRIPTION AND SCOPE OF WORK DURING OPERATION OF THE RATE CONTRACT/ PURCHASE ORDER:

5.1.General Scope of work

Spacecraft subsystem hardware components having close geometrical and dimensional tolerances which are used for on-board flight, generally fabricated/machined from metallic materials like

Aluminium Alloys, Magnesium Alloys, Titanium Alloys, Stainless steel and non-metallic materials like PTFE (Teflon), Delrin, CFRP/GFRP, etc. Four typical part drawings are attached to this EoI for reference purpose.

1. Fabrication involves CNC (Computer Numerical Control) Milling, CNC Turning, CNC-EDM (Electrical Discharge Machining)-Spark Erosion, CNC-EDM Wire-cut and other machine tools. Dimensional Inspection including measurement with electronic digital height master, two dimensional measurements with optical comparator/video measuring machine with data processor, form and roughness measurement, CNC-CMM (Co-ordinate Measuring Machine), different plain and plug gauges etc.
2. Most of the jobs can be carried out with 3 axis machining with simple fixtures, but at times it calls for special fixtures/4 axes/ 5 axes CNC machine tools.
3. The components need to be fabricated out of Aerospace metallic materials like Aluminum Alloys 2024-T6, 6061-T6, Magnesium Alloys AZ31B H24, Titanium Alloys Ti6Al4V (Annealed and/ or Solution Treated Aged), Stainless Steel in 300 & 400 series (Annealed and/ or hardened and tempered condition), Beryllium Copper Alloy (Annealed and/or Precipitation hardened condition) and Non-metals like Composite materials (GFRP, CFRP, ARFP), Teflon (PTFE), Delrin 500AF, Vespel SP-03, Nylon, etc.
4. Fabrication of components involves large material removal of the order of 70-90 percent, thin-walled sections, deep hole drilling on slender components, complicated profiles, and deep rectangular pockets. The size of the components is generally less than 500 mm, rarely the part sizes up to 3000mm.
5. Generally, drawings with CAD models are supplied by URSC. However, Vendor should have clear interpretation/understanding of fabrication drawing and CAD model. Wherever required he should be ready to modify the model based on specific instruction from URSC, then carry out the fabrication/machining.
6. Process Planning (PP) & Quality Plan (QP): Detailed PP & QP to be made by Vendor to meet all quality requirements specified in the drawing including schedule. Wherever required such PP & QP to be brought it to the notice of URSC. However, responsibility of achieving all the quality requirements rests with the Vendor.
7. Typical quality requirements of the hardware to be realized are:
 - i. Dimensional accuracies in the range between 5 μm to 50 μm .
 - ii. Accuracies for Geometrical features like Flatness, Parallelism, and Perpendicularity etc. in the range between 8 μm to 50 μm .
 - iii. Positional accuracies in the range between 5 μm to 20 μm .
 - iv. Surface finish (Ra Value) of the order of 0.4 μm .

8. In process Inspection& Final Dimensional inspection:
 - i. Required in-process inspection/stage inspection to be carried out by the Vendors as per the process plan and maintain such records for audit by URSC.
 - ii. Dimensional Inspection of the fabricated/machined part to be carried out by Vendor indicating the nominal dimension with tolerance and actual measured value for each of the dimension of the part. The inspection report to contain the instrument used for each of the dimension with instrument identification number, to track its calibration status during audits by URSC.
9. Generally, the quantity for fabrication will be of job order type and not of a large production batch. Generally, raw material will be supplied by URSC against equivalent bank guarantee, as the materials are qualified after due testing. Vendor should collect the raw material within twenty-four hours of intimation by URSC. Vendors who are willing to take up such type of jobs only need to respond for this EoI.
10. Delivery of hardware to URSC: After fabrication of the components, vendor should carry out 100% inspection of the components at vendors' Quality Control (QC). In addition to this, vendor should carry out 100% inspection of all components from a certified third-party inspection agency (Certified by NABL or NADCAP or ISO 17020 or any other equivalent international standard). Components along with third-party inspection reports to be submitted to URSC with a proper packing, to avoid any damages during transportation, at free of cost. Any document related to inspection of the components to be submitted to URSC on demand.
11. First Article Inspection (FAI): The vendor must establish, implement, and document a process for First Article Inspection (FAI) in accordance with the latest revision of SAE AS9102 Aerospace First Article Inspection Requirement or as per format shared by URSC, only for jobs where FAI requirement is mentioned by URSC.
12. Prevention of Counterfeit Parts Requirements: The vendor shall plan, implement, and control a process, appropriate to the organization and the product, for the prevention of counterfeit or suspect counterfeit part/raw material use and their inclusion in product(s) delivered to the customer, in accordance with AS9100D Clause 8.1.4.
13. In addition to manufacturing facility, the Vendor should have an inspection facility so that all the parameters mentioned in drawings, like geometrical & dimensional accuracies of fabricated components, can be measured and recorded in inspection reports.

5.2. Vendor Performance Evaluation

The performance of the vendors would be evaluated on periodic basis, based on the principles laid down by the standard IS 12040:2016. The initial appropriation of the value would be done equally amongst all the vendors. Subsequent appropriation would be based on the vendor performance evaluation methodology detailed below:

The Overall Rating would be an arithmetic sum of Quality Rating and the product of Schedule Rating and Load Factor, i.e.,

$$\begin{aligned} \text{Overall Rating} &= \text{Quality Rating} + (\text{Schedule Rating} \times \text{Load Factor}) \\ &= Q_R + (S_R \times L_F) \end{aligned}$$

The aforementioned Ratings would be calculated using the following formulae:

1. Quality Rating:

$$Q_R = \frac{Q_A + \boxed{[OWD \times \sum_{i=1}^3 WD_i \times Q_{Wi}]} + \boxed{[OJD \times \sum_{i=1}^3 JD_i \times Q_{Ji}]} + \boxed{[OID \times \sum_{i=1}^3 ID_i \times Q_{Ii}]} }{Q_T}$$

Rework Factor

Rejection Factor

Reinspection Factor

where, Q_R = Quality Rating

Q_A = No. of components accepted (in first pass itself)

Q_T = Total No. of components

OWD = Overall Rework Demerit

WD_i = Demerit for i^{th} Rework

Q_{Wi} = No. of components for i^{th} Rework

OJD = Overall Rejection Demerit

JD_i = Demerit for i^{th} Rejection

Q_{Ji} = No. of components for i^{th} Rejection

OID = Overall Reinspection Demerit

ID_i = Demerit for i^{th} Reinspection

Q_{Ii} = No. of components for i^{th} Reinspection

2. Schedule Rating:

$$S_R = \frac{\text{No. of jobs delivered in time}}{\text{Total no. of jobs}}$$

$$L_F = \frac{\text{Cummulative hours executed by the vendor}}{\text{Maximum no. of cummulative hours executed by a vendor}}$$

The weightage for Quality Rating in Overall Rating is 40%, while that of Schedule Rating is 60%.

The values of various demerits used would be decided by Internal Technical Evaluation Committee and would be fixed for the period of the Rate Contract/Purchase Order.

URSC reserves the right to terminate the Purchase Order if Overall Rating of vendors is less than 40% for two subsequent half-years, arrived at using the above methodology.

Illustration:

As an illustration, it is assumed that Purchase Order is executed with only three vendors, whose performance is as per the below table. However, the number of vendors may vary based on qualification of Trial Work:

Rank	Vendor	Overall Rating (in % age)
1	A	80
2	B	60
3	C	50
Total		190

Assuming, left-over amount: ₹ 100 L (indicative figure)

Calculation of reapportioned amount:

$$\begin{aligned}
 &1. \quad \text{Reapportioned amount for vendor A} \\
 &= \frac{\text{Overall Rating of vendor A}}{\text{Sum of Overall Rating of all the vendors}} \times \text{Left over Amount} = \frac{80}{190} \times 100 \\
 &= ₹ 42.10 \text{ L}
 \end{aligned}$$

$$\begin{aligned}
 &2. \quad \text{Reapportioned amount for vendor C} \\
 &= \frac{\text{Overall Rating of vendor B}}{\text{Sum of Overall Rating of all the vendors}} \times \text{Left over Amount} = \frac{50}{190} \times 100 \\
 &= ₹ 26.31 \text{ L}
 \end{aligned}$$

6. PROCEDURE FOR FINALISING CONTRACT:

6.1. Procedure

The entire exercise of selecting viable vendors is for entering in to Rate Contract/ Purchase Order carried out in two stages i.e.,

- a) Expression of Interest (EoI) and qualification stage
- b) Request for Proposal (RFP) Stage.

The following work flow depicts the structure of process flow that would be adopted in the vendor selection process:

1. Call for Expression of Interest.
2. EoI Response Submission.
3. EoI Evaluation – initial short listing of vendors for trial work based on responses (Technical & Managerial Competence Audit with/without a facility visit).
4. Verification/Qualification trial work for the above short listed new vendors– to evaluate their fabrication competence and final short listing to participate in the RFP process.
5. Release of Request for Proposal (RFP) for entering in to Parallel Rate Contract/Purchase Order for the above final qualified vendors.
6. RFP response submission.
7. Evaluation of offers.
8. Placing Parallel Rate contracts/Purchase Order through negotiation/Counter offer.
9. Operation of RC through individual work orders.

6.2. Trial Work

1. After initial shortlisting of vendors based on EoI responses and facility visits, if any; trial work for evaluation shall be given to the shortlisted vendors.
2. This work is a **trial work** for evaluation (**fabrication of all the components is mandatory**) for empanelment in vendor list. **No payments** would be made for the execution of this trial work.
3. 2D drawings (4 copies each) of the components for trial work would be supplied by URSC for the following:
 1. 1 Drawing for Programming/ Planning
 2. 1 Drawing for Shop Use
 3. 1 Drawing for inspection numbering/ballooning for reference of vendor
 4. 1 Drawing for inspection numbering/ballooning and return to URSC-ISRO along with the inspection report

4. Study the drawing thoroughly, any clarifications required with regard to View, Dimensions, Clarity & Understanding, the same may be obtained from focal point/Engineer, in writing. 3D CAD model and CAM Programming to be done by the vendor, wherever required.
5. Components should be fabricated **only** out of raw material supplied for execution of this trial work by URSC. **Use of any other material is strictly prohibited.** Raw Material for each job will be supplied **only once.** **Rejection** of components would lead to **disqualification of the vendor.** Also, components fabricated from raw material other than that supplied by URSC would lead to **disqualification of the vendor.** Raw material signature would be taken by URSC and it would be compared with that of the finished components.
6. Exposed surface should have machining finish only. No emery to be applied on the components, at any stage of machining. Blending of sharp edges to be done by Burr tool/ formed blades only.
7. Engraving of the component at defined location is important. It should be neat and legible.
8. Inspection numbering of dimensions to be done legibly in clockwise/anticlockwise direction only, taking one drawing view at a time for easy follow-up. All dimensions/parameters (including surface finish) mentioned in the drawing need to be measured. Also, maximum & minimum readings of measured values against specified nominal values to be reported. Any deep scratches, dents, tool marks or any other deviations to be reported in the 'Remarks' column. Instruments used for measurement to be indicated against each dimension and instrument number/code to be mentioned for each instrument used, at the end of the report.
9. Utmost care to be taken while handling the component.
10. Components to be properly packed (avoid usage of plastic sheet less than 40 microns) and dispatched in order to avoid any damages during transportation.
11. Raw Material to be collected from External Fabrication/Stores - URSC by authorized person (with proper authorization) & finished components to be delivered to URSC External Fabrication/Stores with numbered/ballooned drawings and inspection reports. No payment would be made for collection of raw materials and delivery of the components.
12. Vendor is requested to collect the raw material and four set of part drawings for four components from URSC within **15 days** of receipt of communication.
13. Delivery of the all-finished components with proper documents (ballooned drawings and inspection reports) should be made within **50 days** from the date of collection of Raw material. **Failing to do so would lead to disqualification of vendors.**
14. Acceptance Criteria:
 - a. All dimensions, accuracies and surface finish have to be maintained as per drawings.
 - b. The components shall have machined finish. Tool dig, dent marks, emery marks and/or any other noticeable defects may lead to rejection.

7. TERMS AND CONDITIONS:

All vendors who want to execute precision mechanical fabrication jobs under Rate Contract/Purchase Order shall participate in EoI.

7.1.Exemption from qualification process

The following vendors are exempted from qualification process:

Vendors executing jobs under PO No. URSC/GE/IS2024P0018501 dt. 21/02/2025

7.2.Organisation Portfolio

1. The applicant may be a Proprietorship, Registered Partnership Firm, Indian Company/Domestic Company-Private or Public Company-Listed or Unlisted. Vendor shall submit the interest in the given EoI response sheet.
2. An Indian Company would be deemed to be owned by Indian Citizen and by an Indian Company if more than 51 percent of equity interest in the company is beneficially owned by Resident Indian Citizens and Indian Companies that are, in turn, ultimately owned and controlled by Resident Indian Citizens.
3. Control has been defined as the right to appoint the majority of the Directors or to control management and policy decisions, including by virtue of their shareholdings or management rights or shareholders or agreement or voting arrangements.
4. The applicant must be registered in India as required by law with minimum three years of continuous operation up to the date of publication of this EoI.
5. The Vendor should also have a valid GST registration. The Vendor should submit Self attested copy(ies) of the Certificates of Incorporation and other certificates that are legally required for carrying out its business activities in India.
6. The certificates should be valid at the time of EoI submission and should be certified by an authorized signatory. A copy of PAN Card should also be submitted.
7. Income Tax Returns of the last three assessment years duly certified by a Chartered Accountant has to be submitted.
8. An undertaking (self-certificate) is to be submitted that, the Organization hasn't been blacklisted by any Central/ State Government Department/ Central Government funded organizations/ State Government funded organizations and is not under any illegal expression by Government of India.

9. The applicant, should not have, during the last three years, either failed to perform on any agreement, or been expelled from any project or agreement or have any agreement terminated for breach by the applicant.
10. Persons who are individually or institutionally, in any manner, involved with the selection/screening process of the EOI, and employees of ISRO are ineligible for applying.
11. An undertaking (self-attested) is to be submitted that there has been no outstanding bankruptcy, judgment or pending legal action that could impair operating as a going Concern. Also, the Vendor must be solvent, in the Legal Court of Law.

7.3. Terms & Conditions: General

1. This EoI is not an offer and is issued with no commitment. URSC reserves the right to withdraw the EoI or change or vary any part thereof at any stage. URSC also reserves the right to disqualify any Vendor/proposal, should it be so necessary at any stage.
2. Timing and sequence of events resulting from this EoI shall ultimately be determined by URSC.
3. By submitting a proposal, each vendor shall be deemed to acknowledge that the Vendor has carefully read all chapters of this EoI, and has fully understood and well informed about all existing terms and conditions.
4. The proposal and all correspondence and documents shall be written in English.
5. Vendor shall compulsorily fill up the Response format and compliance matrix (Part- 1 & Part- 2) as given in Chapter 8 in the EoI.
6. **Predatory Pricing:** The Vendor shall specifically take note that “Predatory Pricing” at the Request for Proposal [RFP] stage will not be accepted and such Bids not meeting even the basic cost of input i.e., quoting unreasonably/abnormally low prices to undercut and obtain the Contract are liable to be ignored/rejected, in order to obtain quality products.
7. **Non-Disclosure Agreement (NDA):** All documents/part drawings part of this EoI and subsequent documents/part drawings issued for evaluation and execution of works and any other communication revealed during the project will be exclusive property of URSC and Vendor shall have no right whatsoever on them and shall not disclose to any other person/party not involved in the execution of the allotted work. The qualifying vendor must sign an undertaking on NDA as per the prescribed format.
8. Further, the Vendor must not quote any of these works in any publications or to any of their customers/public domain without explicit written permission from URSC and adhere to strict confidentiality.

9. **GST Registration:** Government of India has implemented Goods and Services Tax (GST) w.e.f. 01.07.2017. The Vendor should mandatorily possess a valid GSTN along with GST registration Certificate.
10. The Vendor shall ensure that the persons involved in working on jobs for URSC are aware of the following:
1. Their contribution to product or services conformity.
 2. Their contribution to product safety.
 3. The importance of ethical behaviour.
11. The Vendor shall plan, implement and control processes for the prevention of counterfeit or suspect counterfeit part use and their inclusion in components delivered to URSC.

8. EOI RESPONSE FORMAT:

Cover Letter

(Company letterhead)

[Date]

To,

**SENIOR HEAD, PURCHASE & STORES
UR RAO SATELLITE CENTRE
HAL AIRPORT ROAD, VIMANAPURA POST
BANGALORE -560017
KARNATAKA**

Dear Sir,

Ref: Expression of Interest for “Rate contract for Precision Mechanical Fabrication”

Having examined the Expression of Interest (EoI), the receipt of which is hereby duly acknowledged, we, the undersigned, intend to submit a proposal in response to the Expression of Interest (EoI).

We attach hereto the response as required by the EoI, which constitutes our proposal. Primary and Secondary contacts for our company are:

	Primary Contact	Secondary Contact
Name		
Title		
Company Name		
Address		
Phone No.		
Mobile No.		
FAX No.		
Email ID		

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to URSC is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead URSC in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the short-listing process, we are liable to be dismissed from the selection process or termination of the contract during the execution of the contract.

We agree for unconditional acceptance of all the terms and conditions set out in the EoI document.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm / organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this

(Signature) (In the capacity of)

(Name)

Duly authorized to sign the EoI Response for and on behalf of:

(Name and Address of Company) Seal / Stamp of Vendor

Witness Signature:

Witness Name:

Witness Address:

CERTIFICATE AS TO AUTHORIZED SIGNATORIES

I,, the Company Secretary of, certify that Who signed the above response to EoI is authorized to do so and bind the company by authority of its board / governing body.

Date:

Signature:

(Company Seal)

Part-I

8.1 General Details of the Vendor

8.1.1	Name of the Vendor	
8.1.2	Year of Establishment	
8.1.3	Core capabilities of the Vendor, Standard products from vendors if any	<i>Type brief profile of the Vendor in Annexure – A (without referring to attachment of any report/s)</i>
8.1.4	Head office location and address with contact number & email id:	
8.1.5	Local address in Bangalore if any with contact number & email id:	
8.1.6	Addresses of manufacturing and/or operational setup in India (Highlight the address where URSC representative shall visit for audit)	1. 2. 3.
8.1.7	Corporate website URL, if any:	

Table-

1

NOTE:

Vendor must provide all the details in the aforementioned table no. 1. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.

8.2 Mandatory Supporting Documents

Auditor certified statements for the last three years, FY 2022-23, FY 2023-24 and FY 2024-25 in Annexure-B (please provide the profit and loss statement and balance sheet).

Financial Parameter	FY 2022-23	FY 2023-24	FY 2024-25
Net Revenue from Operations <i>(in INR Crores)</i>			
EBTD <i>(Earnings Before Tax and Depreciation)</i>			
Revenue from Aerospace Segment <i>(Percentage of Total Revenue)</i>			
Net Worth			
Share Capital			
Shareholding by Indian Entities <i>(Percentage %)</i>			
Shareholding by Foreign Entities <i>(Percentage %)</i>			

Table-2

NOTE:

- 1. Vendor must provide all the details in the aforementioned table no. 2. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.**
- 2. Verification: Any discrepancy between the data entered in this table and the attached Auditor-Certified statements (Annexure-B) may be viewed as a material misrepresentation and may result in disqualification.**

Part-2

8.3: Form A Compliance Matrix to be filled by Vendors

Refer Chapter No	Description	Understanding and Compliance (Yes/No)	Remark
1	Modus Operandi		
2	EoI Objective		
3	Introduction to Satellite Subsystems		
4	Introduction to Precision Mechanical Fabrication		
5	Description and Scope of Work		
6	Procedure For Finalizing Contract		
7	Terms & Conditions		
8	EoI Response Format		

Table-3

NOTE:

Vendor must provide all the details in the aforementioned table no. 3. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.

8.4: Form B- Compliance Matrix to be filled by Vendors with respective to Organisation, Experience and Infrastructure

8.4.1. Instructions for Completion: The Vendor must meticulously complete the following Compliance Matrices.

- **Mandatory Requirements:** Failure to demonstrate full compliance ("Complied") with any item in **Table A** shall result in the immediate disqualification of the Vendor. These criteria are non-negotiable conditions for eligibility to undertake Trial Work.
- **Supplementary Requirements:** **Table B** outlines preferred capabilities that will be evaluated to assess the comprehensive strength and operational maturity of the Vendor.
- **Evidence:** The Vendor must reference specific Annexures or page numbers in the "Remarks/Supporting Documents" column where proof of compliance can be verified.

TABLE A: MANDATORY COMPLIANCE REQUIREMENTS (CRITICAL CRITERIA)

Non-compliance with any item in this table renders the Vendor ineligible for Trial Work.

Sl. No.	Critical Requirement Description	Compliance Status (State "Complied" or "Not Complied")	Remarks / Supporting Documents (Reference specific Annexures/Proof)
1	<p>CAD/CAM Infrastructure The Vendor must possess in-house expertise and licensed software for 3D CAD Modelling & CAM Programming. <i>Requirement: Specify the exact Name and Version of the CAD/CAM package(s) currently in use.</i> <i>Attach certificate of license from OEM or its authorised agent</i></p>		
2	<p>Core Machining Infrastructure (CNC Milling) The Vendor must possess, in-house, a minimum of Two (2) Units of CNC Milling Machines (3-Axis/ 4-Axies/5-Axis) that are operational. <i>Requirement: Attach detailed specifications (Make, Model, Table Size, Spindle Speed, Features) and dated photographs of the machines.</i></p>		

3	<p>Secondary Machining Capability</p> <p>The Vendor must possess, operational, in-house, at least One (1) Unit from the following categories:</p> <p>(a) CNC Turning Center; OR (b) CNC Turn-Mill Center; OR (c) CNC EDM Spark Erosion Machine; OR (d) CNC EDM Wire-Cut Machine.</p> <p><i>Requirement: Specify the type and number of machines available. Attach Make, Model, Size, Features, and photographs.</i></p>		
4	<p>Dimensional Inspection & Metrology Infrastructure</p> <p>The Vendor must possess operational and calibrated in-house dimensional inspection equipment, including but not limited to:</p> <ul style="list-style-type: none"> • Surface Plate • Electronic Digital Height Master • Digital Micrometer & Digital Caliper • Protractor • Cylindrical Pin Gauges (up to 6mm in steps of 0.01mm) • Thread Plug & Ring Gauges (up to M6) • Radius Gauges & Slip Gauge Sets <p><i>Requirement: Provide a detailed list of all inspection facilities and equipment.</i></p>		

Table-4

NOTE:

Vendor must provide all the details in the aforementioned table no. 4. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.

TABLE B: OPTIONAL REQUIREMENTS

These criteria are used to evaluate the Vendor's depth of experience and operational maturity.

Sl. No.	Desirable Requirement Description	Compliance Status (State "Complied" or "Not Complied")	Remarks / Supporting Documents (Reference specific Annexures/Proof)
1	<p>Financial Experience (Volume of Work)</p> <p>The Vendor should have successfully completed Purchase Orders (POs) for similar nature of work with a total value of preferably INR 50 Lakhs or more per annum during the last three (3) financial years.</p> <p><i>Requirement: Attach copies of POs clearly showing Scope, Magnitude, Proof of Completion, and Delivery in Annexure-C.</i></p>		Refer to Annexure-C
2	<p>Technical Complex Fabrication Experience</p> <p>Demonstrable past experience in handling complex fabrication tasks, specifically:</p> <ul style="list-style-type: none"> • Thin-walled structures/sections • Large material removal (High Buy-to-Fly ratio) • Deep hole drilling on slender components • Deep rectangular pockets & complex profiles <p><i>Requirement: Provide details of specific jobs and PO values in Annexure-C.</i></p>		Refer to Annexure-C
3	<p>Bench Work & Tooling Facility</p> <p>In-house availability of a Bench Work facility (Bench Drilling, Tapping) and comprehensive tooling inventory (Jigs, Fixtures, Tool Holders, etc.).</p> <p><i>Requirement: Describe the facility and inventory separately.</i></p>		
4	<p>Shop Floor Area</p> <p>Total available Machine Shop Floor Area (in square feet/meters).</p>		
5	<p>Workforce & Management Structure</p> <p>Availability of a qualified in-house workforce and structured management team.</p>		

	<i>Requirement: Provide a detailed table listing the workforce, including Trade/Designation, Qualification, Headcount, Total Years of Experience, and Tenure with the current firm.</i>		
6	<p>Quality Certifications</p> <p>Possession of valid Quality Management System certifications, preferably ISO 9001, AS 9100, NABL Accreditation, or equivalent.</p> <p><i>Requirement: Provide valid documentary proof in Annexure-D.</i></p>		Refer to Annexure-D
7	<p>Clientele</p> <p>List of existing Aerospace Customers (State/National/International).</p>		
8	<p>Product Portfolio</p> <p>Specification of the Company's standard proprietary products (if any).</p>		

Table-5

Signature:

Name of the authorized signatory for the company:

Date:

Place:

Note:

Vendors failing to meet the **mandatory** requirements would not be considered for trial work.

NOTE:

Vendor must provide all the details in the aforementioned table no. 5. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.

8.5: Form C- Compliance Matrix to be filled by Vendors with respective to Additional Infrastructure

Scope of Assessment This matrix evaluates the Vendor's enhanced technical capabilities. While these facilities are not mandatory for initial qualification, they constitute critical criteria for assessing the Vendor's ability to handle complex, large-scale, or specialized fabrication tasks. Apart from these vendors can mention any other infrastructure/specialized capabilities.

Sl. No.	Description of Facility / Capability	Operational Mode (Specify "In-house" or "Outsourced")	Compliance Status (State "Complied" or "Not Complied")	Remarks / Supporting Documents (Must include Machine Details & Sub-contractor Address if Outsourced)
1	<p>Large Format CNC Milling</p> <p>Availability of 3, 4, or 5-Axis CNC Milling machines with large bed sizes (above 800 mm).</p> <p><i>Requirement: Attach Make, Model, Size, Features, and Photographs.</i></p>			
2	<p>Large Format CNC Turning</p> <p>Availability of CNC Turning Centers or CNC Turn-Mill Centers of large sizes.</p> <p><i>Requirement: Attach Make, Model, Size, Features, and Photographs.</i></p>			
3	<p>Heavy & Specialized Machining</p> <p>Availability of:</p> <ul style="list-style-type: none"> • Plano Milling Machines • Vertical Turret Lathes (VTL) • Ultrasonic Machining • Laser Hole Drilling/Machining • Advanced Tooling: Vacuum fixtures, Shrink-fit tool holders, etc. <p><i>Requirement: Attach Make, Model, Size, Features, and Photographs.</i></p>			

Sl. No.	Description of Facility / Capability	Operational Mode (Specify "In-house" or "Outsourced")	Compliance Status (State "Complied" or "Not Complied")	Remarks / Supporting Documents (Must include Machine Details & Sub-contractor Address if Outsourced)
4	<p>Special Processes & Surface Finishing Availability of:</p> <ul style="list-style-type: none"> • Additive Manufacturing (3D Printing) • Plasma / Water Jet Cutting • Deburring Machines / Ultrasonic Cleaning • Secondary Coating / Plating facilities <p><i>Requirement: Attach Make, Model, Size, Features, and Photographs.</i></p>			
5	<p>Fabrication & Heat Treatment Availability of:</p> <ul style="list-style-type: none"> • Heat Treatment / Stress Relieving facilities • Welding Shop (SMAW, TIG) • Sheet Metal Press Tooling <p><i>Requirement: Attach Make, Model, Size, Features, and Photographs.</i></p>			
6	<p>Advanced Metrology & Inspection Availability of:</p> <ul style="list-style-type: none"> • Large Surface Plate (> 1000 mm) • Profile Projector (with data processor) or Video Measuring Machine (VMM) • CNC Coordinate Measuring Machine (CMM) • Surface Roughness Tester <hr/> <ul style="list-style-type: none"> • Cylindrical Pin Gauges (up to 6mm in steps of 0.005mm) • Thread Gauges (above M6) • Traceability: Metal Sorter for Raw Material identification. 			

Table-6

*** Remarks:**

1. Provide Documentary Proof as supporting documents to the topics in the above table.
2. Clearly fill the column with the regard to the availability of facilities in-house (OR) outsourcing.
3. In case of outsourcing, mention the full address, details and their expertise shall be mentioned.

Signature:

Name of the authorized signatory for the company:

Date:

Place:

NOTE:

Vendor must provide all the details in the aforementioned table no. 6. Mere reference to “Refer to Attachment” or “Refer Brochure” is strictly prohibited and would be considered Non-compliance.

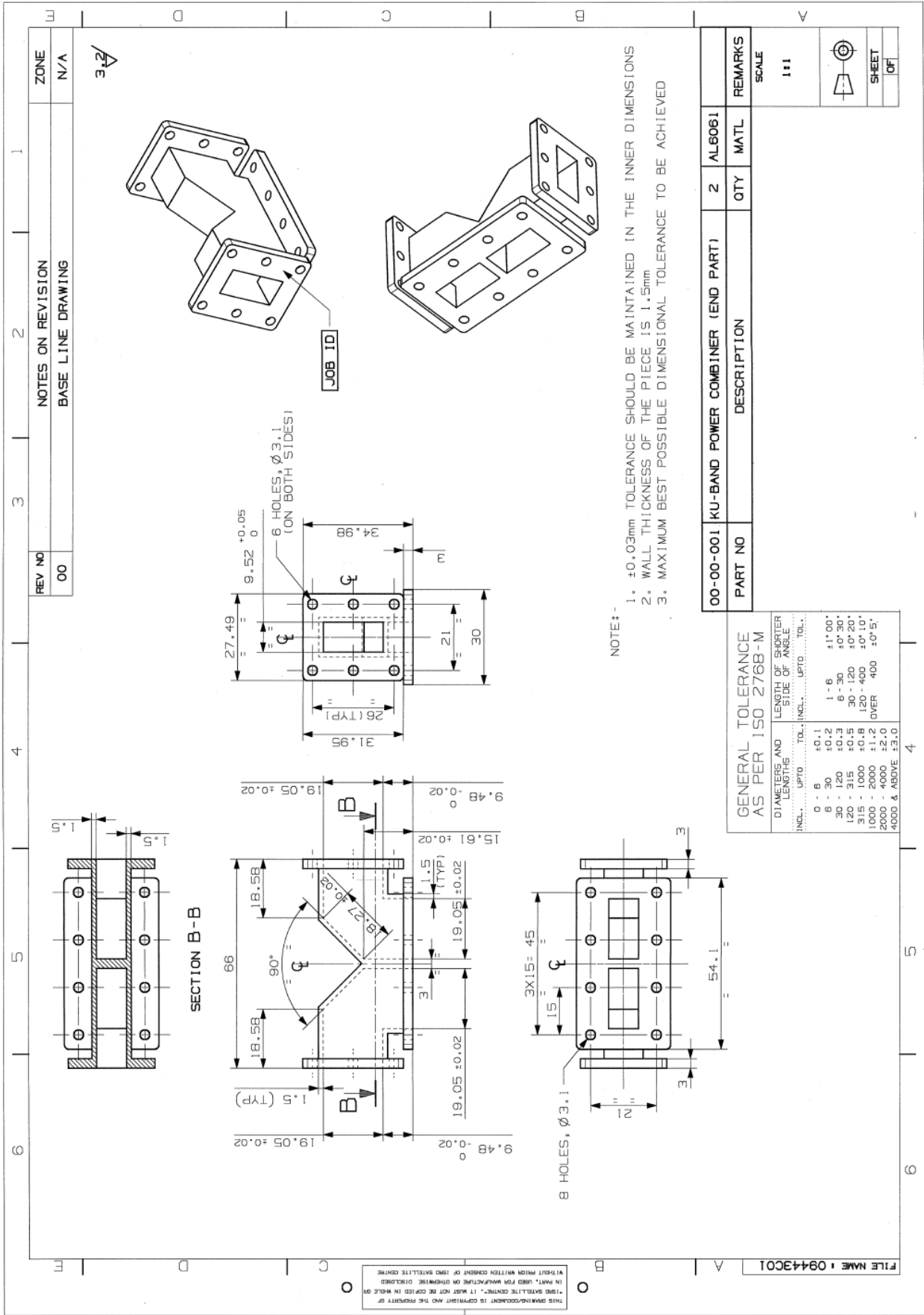
8.6 EoI Response Format Contents

The proposal should be submitted as an Expression of Interest (EoI) as a collation of the following table of contents as below, in the enclosed format, clearly providing the details requested below with documentary proof/supporting documents as Annexure.

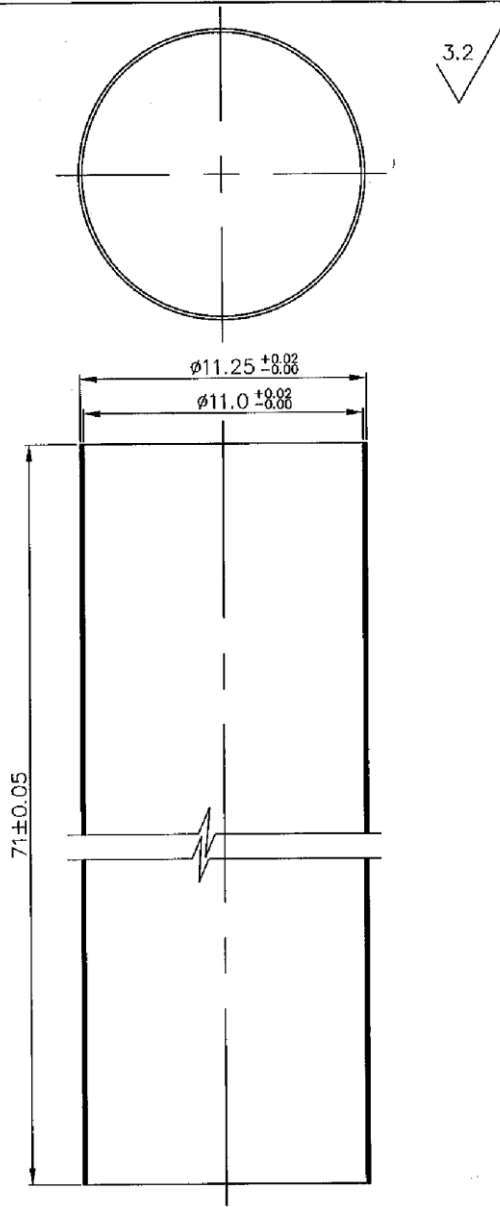
The vendor has to provide the information as per the formats as prescribed in chapter 8 Response Format. The overall compliance matrix as per section 8.3, 8.4, 8.5 should also be submitted as per the EoI proposal. All these inputs may be furnished in a neatly typed document in the said formats.

The proposal and all correspondence and documents shall be written in English.

Sl. No	Contents	Page No
1.	Covering Letter	
	Part-I	
2.	General particulars of Vendor	
3.	Mandatory Supporting Documents	
	Part-2	
4.	Form A Compliance Matrix to be filled by Vendor	
5.	Form B Compliance Matrix to be filled by Vendor	
6.	Form C Compliance Matrix to be filled by Vendor	
List of Annexure		
	Annexure- A	Brief Profile of the vendor
	Annexure-B	Auditor certified statements
	Annexure-C	Copies of PO/Work order/Contract copy
	Annexure-D	Quality Certification copies (ISO 9001 : 2015 or equivalent)



FILE NAME : 02694205



NOTE: -
SUITABLE MANDREL TO BE FABRICATED FOR HANDLING AND TRANSPORTATION.

04-03-002	DISPLACER TUBE	1	Ti6AL4V		
PART NO.	DESCRIPTION	QTY	MATL.	SIZE	REMARKS

DO NOT SCALE THE DRAWING.
UNLESS OTHERWISE STATED
DIMENSIONS ARE IN MM.
REMOVE SHARP EDGES.

TITLE

SCALE
5:1

PROJECTION

SHEET
5 OF 1

FILE NAME : 02694205

SAMPLE DRAWINGS FOR TRIAL WORK

