



भारतसरकार / Government of India
अंतरिक्षविभाग / Department of Space
यू.आर. रावउपग्रहकेंद्र / U.R.RAO SATELLITE CENTRE
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बेंगलूरु/ BENGALURU – 560 017

Ref No.: URSC/PUR/ISMS2026-0-67712/EoI-02/2026-27

24-04-2026

**आर एफ परावर्ती मेश गोर्स के आरंभ से अंत तक
उत्पादन तथा संयोजन हेतु इच्छा की अभिव्यक्ति का आमंत्रण
Invitation for Expression of Interest [EoI]
For End To End Realization And Assembly of
RF Reflective Mesh Gores**

अंतरिक्ष विभाग, भारत सरकार के अंतर्गत भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) का यू आर राव उपग्रह केंद्र (यू आर एस सी), भारत में निर्मित होनेवाले सभी उपग्रहों के अभिकल्पन, विकास, संविरचन तथा परीक्षण के लिए उत्तरदायी है। वर्तमान में यू आर एस सी, आर एफ परावर्ती मेश गोर्स के आरंभ से अंत तक उत्पादन तथा संयोजन हेतु उद्योग भागिदारों को आमंत्रित कर रहा है।

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 Industry Partners to carry out the **End To End Realization And Assembly of RF Reflective Mesh Gores**.

यू आर एस सी, आर एफ परावर्ती मेश गोर्स का आरंभ से अंत तक उत्पादन तथा संयोजन स्वतंत्र रूप से उद्योग द्वारा करवाने तथा आगे अंतरिक्षयान-संबंधी क्रियाकलाप निष्पादित करने के लिए निजी अंतरिक्ष उद्योग में दक्ष मानव संसाधन का विकास करने के लिए इच्छुक है।

URSC is interested to enable the industry to carry out independently the End To End Realization And Assembly of RF Reflective Mesh Gores and further to develop skilled manpower in the private space industries to carry out spacecraft related activities.

इस प्रस्ताव का उद्देश्य विशेष रूप से आर एफ परावर्ती मेश गोर्स के आरंभ से अंत तक उत्पादन तथा संयोजन कार्य निष्पादित करने हेतु तकनीकी अवसंरचना तथा क्षमता वाले भारतीय उद्योगों से इच्छा की अभिव्यक्ति आमंत्रित करना है।

The proposal is to invite Expression of Interest exclusively from Indian industries having technical infrastructure and capability to execute **End To End Realization And Assembly of RF Reflective Mesh Gores**.

ई.ओ.आई. दस्तावेज हमारे वेबसाइट www.isro.gov.in से डाउनलोड किए जा सकते हैं।

EoI documents can be downloaded from our website www.isro.gov.in

ई ओ आई का मूल्यांकन बोलीकर्ता के अनुभव, सेवा-क्षेत्र की समझ, सुविधा अवसंरचना, प्रस्तावित कार्यप्रणाली और कार्य योजना, दक्ष मानव संसाधन और उद्योग की वित्तीय शक्ति के आधार पर किया जाएगा।

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.

आवश्यकता पड़ने पर या आगे की जानकारियाँ/विवरण माँगने के लिए, यू आर एस सी ईओआई की प्रक्रिया रद्द करने/इसे पुनः जारी करने 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.

कंपनियों/व्यावसायिक प्रतिष्ठान किन्हीं भ्रष्ट या धोखाधड़ीपूर्ण कार्यों में लिप्त पाए जाने पर, निविदा प्रक्रिया में भाग लेने से रोक दिए जाएँगे और उनके ईओआई दस्तावेजों 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/व्यावसायिक प्रतिष्ठानों को निम्नलिखित जानकारियाँ भी विस्तार से प्रस्तुत करनी होंगी:

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

1. फोन, फैक्स, ईमेल, वेब आदि के साथ कंपनियों के पंजीकृत पते,
Registered address of the Companies with Phone, Fax, Email, Web etc.
2. मालिक, भागीदारों, निदेशक मंडल आदि के नाम और पते के साथ कंपनी/संगठन की स्थिति (स्वामित्व/साझेदारी/निजी/सार्वजनिक लिमिटेड आदि)।
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. पूर्ण पते और संपर्क किए जानेवाले व्यक्तियों के विवरण के साथ पिछले 3 वर्षों के दौरान प्रमुख ग्राहकों की सूची
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 के साथ पिछले 3 लगातार 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 सुविधाएँ।
Financial Capacity/Credit facilities available.
9. बैंकों के नाम और पते।
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. बैंकों द्वारा जारी व्यावसायिक प्रतिष्ठान की ऋण-शोधन/वित्तीय क्षमता।
Solvency/Financial capacity of the Firm issued by their Bankers.
14. उद्योग/उद्योगों की अन्य कोई प्रासंगिक जानकारीयाँ।
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. कंपनियों/व्यावसायिक प्रतिष्ठानों को ईओआई दस्तावेजों के सभी अनुदेश, निबंधन व शर्तें, प्रपत्र, आवश्यकताएँ और अन्य सूचनाएँ सावधानीपूर्वक पढ़ने की सलाह दी जाती है। ईओआई की प्रस्तुति तभी मान्य होगी, जब इसे ईओआई दस्तावेजों के सावधानीपूर्वक पठन और जाँच के बाद इसके निहितार्थों को समझते हुए प्रस्तुत किया जाए।
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 संदर्भों में पूर्ण होना चाहिए। ई ओ आई दस्तावेज द्वारा माँगी गई आवश्यक सभी जानकारीयाँ प्रस्तुत करने में विफलता या ईओआई दस्तावेजों के हर पहलू का ठोस उत्तर न देने वाले प्रस्ताव की प्रस्तुति कंपनियों/व्यावसायिक प्रतिष्ठानों के जोखिम पर होगी और इसके परिणामस्वरूप दस्तावेज अस्वीकृत 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 की गई ईओआई के सभी पृष्ठों पर क्रमांक अंकित होने चाहिए और प्राधिकृत हस्ताक्षरकर्ता के हस्ताक्षर होने चाहिए।
All the pages of the EOI submitted must be numbered and signed by the authorized signatory.

- d. ई ओ आई के संबंध में किसी भी प्रकार की सिफ़ारिश करना/प्रभाव डालना सख्त वर्जित है और एजेंसी द्वारा प्रस्तुत इस प्रकार से सिफ़ारिश की गई/प्रभावित ईओआई को अस्वीकृत कर दिया जाएगा।

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

उपर्युक्त सभी जानकारियों के साथ इच्छा की अभिव्यक्ति नीचे दिए गए पते पर, उपर्युक्त संदर्भ संख्या का उल्लेख कर, नियत तिथि एवं समय तक या उससे पहले पहुँच 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 व भंडार/Sr. Head, Purchase & Stores
यू आर राव उपग्रह केंद्र/U R Rao Satellite Centre
एचएएल एयरपोर्ट रोड/HAL Airport Road
विमानपुरा पोस्ट, बेंगलुरु / Vimanapura Post, Bengaluru-560 017
कर्नाटक, भारत/Karnataka, India
E-mail: ps0_e@ursc.gov.in

(कृपया ई ओ आई संख्या का उल्लेख करते हुए अपने स्पष्टीकरण ई-मेल ps0_e@ursc.gov.in पर भेजें। ई ओ आई-पूर्व बैठक में सभी प्रश्नों के उत्तर दे दिए जाएँगे। ई ओ आई बैठक में भाग लेने के लिए अनुरोध **07.05.2026** को 14:00p0 IST तक 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 के जरिए प्राप्त मूल्य-प्रस्ताव स्वीकार्य नहीं हैं। नियत तिथि और समय के बाद प्राप्त मूल्य-प्रस्ताव स्वीकार्य नहीं हैं।)

(Please address your clarifications quoting the EOI number to E-mail: ps0_e@ursc.gov.in. All queries related to EOI will be addressed in the Pre-EOI meeting. Request for participation in Pre-Eoi meeting shall reach on or before 07.05.2026 14:00 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)

स्पष्टीकरण प्रस्तुत करने की अंतिम तिथि

Last date of submission of clarification : 04.05.2026 10:00 Hrs IST.

पूर्व-ईओआई बैठक (सम्मेलन कक्ष,
स्वगत कक्ष, यू आर एस सी में)

Pre-EOI meeting (at Conference
Hall, Reception, URSC) : 08.05.2026 13:30 Hrs IST.

ईओआई प्रस्तुत करने की अंतिम तिथि

Last date for submission of EOI : **21.05.2026 13:00 Hrs IST.**

ई ओ आई खुलने की तिथि

Opening date of EOI : **22.05.2026 11:00 Hrs IST.**

उपर्युक्त सभी जानकारियों के साथ इच्छा की अभिव्यक्ति **21/05/2026 को 13:00** बजे तक या उससे पहले उपर्युक्त संदर्भ संख्या का उल्लेख करते हुए, अधोहस्ताक्षरी के पास 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 स्वीकृत या अस्वीकृत 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 **21/05/2026 13:00 Hrs.** 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.

Sd/-

वरिष्ठ प्रधान, क्रय एवं भंडार
Sr. Head, Purchase & Stores

**INVITING EXPRESSION OF INTEREST [EoI]
FOR
END TO END REALISATION AND ASSEMBLY OF
RF REFLECTIVE MESH GORES**

1. EoI OBJECTIVE

URSC invites the Expression of Interest [EoI] from Indian Industries who are having or in the process of establishing **end to end realisation and assembly of RF reflective mesh gores for Antenna Assembly. Antenna can be stowed into a smaller volume to unfurl on orbit to its full size. The antenna assembly is a deployable mesh antenna where RF reflective mesh gores form the RF reflective antenna surface supported by parabolic ribs to maintain deployed shape in orbit.** The purpose of this EoI is to invite proposals from potential vendors who are interested in developing **RF reflective mesh gores** for U. R. Rao Satellite Centre, Bengaluru. Vendors having sufficient know-how, experience, infrastructure to carry out manufacturing, screening & qualification and financial background shall submit the Expression of Interest [EoI]. Capable Vendors will be selected after evaluation of vendor's response, compliance & capability assessment by URSC from the list of vendors submitting the EoI.

2. DEVICE SPECIFICATION

The **RF reflective mesh gores** specifications are as per Annexure-1.

3. VENDOR SELECTION

1. Vendors shall submit the details in the prescribed format outlined in Annexure-2.
2. Vendor shall submit the compliance for the products as prescribed in Annexure-1.
3. Vendor Selection will be based on the assessment of the vendor with respect to the vendor's capability, infrastructure, & experience in producing the proposed parts supplying flight mechanical parts.
4. URSC team may conduct on-site visit to assess the vendor's capability & infrastructure.

4. GENERAL INFORMATION ON INDIGENISATION FLOW TO VENDORS

The Indigenisation at URSC is carried out in phased manner and is depicted in Annexure-3 which is just an indicative flow of activities. Following are the phases involved:

1. Phase-1: Inviting Expression of Interest (EoI) from Vendors
2. Phase-2: Procurement of materials by Vendor (Shortlisted in Phase-1 after EoI evaluation), as per Annexure - 1
3. Phase-3: Fabrication of fixtures as per annexure-1
4. Phase-4: Qualification of RF mesh gores needs efforts from Vendor & URSC, hence vendor may maintain the production facility at least for 5 years after qualification for uninterrupted supply of space grade gores.

5. LIST OF ENCLOSURES

1. Annexure-1: RF mesh gores and fixtures details
2. Annexure-2: Vendor Details Form
3. Annexure-3: Flow of Indigenisation Activity

ANNEXURE-1
RF Reflective Mesh and Al-alloy details

I. Technical Specification for Gold Plated Molybdenum Mesh

1	Material	
1.1	Base wire	: Molybdenum (purity: 99.9% or better)
1.2	Outer plating	: Gold (Purity: 99.9% or better)
2	Dimension	
2.1	Base Molybdenum Wire diameter	: 1.2 Mil (30 microns)
2.2	Gold Plating	: 4% to 6% by weight (of base wire)
3	Mesh Knit Pattern	: Tricot Knit
4	Mesh Opening	
30 OPI (Openings per inch in both directions), at nominally stretched condition of 10 N per meter-width for both Warp and Weft direction		
5	Knitted Mesh Defects Acceptability criterion:	
	Allowable defect Hole perimeter size:	
5.1	For 30 OPI	: Less than 5 mm perimeter
5.2	Defect hole per Sq- m of Mesh	: Maximum 03 (three)
5.3	Allowable Abrasion mark: No abrasion mark is preferred; however, in unavoidable conditions, marks should not score away gold plating	
5.4	Mesh should be free of foreign materials, viz. grease, oil, dust.	
6	Reports and Documentation	
6.1	The following certificates should accompany along with supply of sample as well as final shipment	
	<ul style="list-style-type: none"> • Certificates of Chemical composition, • Physical and mechanical Properties of molybdenum wire used, • Gold plating details • The summary of observed mesh defects with locations. 	

II. Technical Specification for Aluminium alloy bars and rods

S. No	Description	Specification																																						
1.	Product Form and Temper condition	Aluminum Alloy AA6061 bars and rods T6511 temper conditions produced by extrusion																																						
2.	Applicable Standard	ASTM B 221M																																						
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		Density: 2700 (\pm 0.5%) Kg/m ³
5.	Non-destructive Testing	<p>Ultrasonic Testing</p> <p>a. <u>Products:</u> <i>For bars and rods</i>, 100% ultrasonic inspection shall be done in accordance with AMS 2630B (>12.7mm) / AMS 2632A (<12.7mm) to detect small internal discontinuities. Materials shall be free from internal defects such as cracks, voids and laminations. Acceptance level shall be QUALITY CLASS A (Single defect dia 2.0 mm FBH and multiple/linear defects dia 1.2 mm FBH).</p> <p>b. Liquid Penetrant Testing The liquid penetrant testing shall be carried out as per ASTM E165. The material shall free from all types of surface defects such as cracks and laps</p>
6.	Metallurgical characteristics	<p>1. Metallographic examinations shall be carried out as per ASTM E 3 and E 407. The material shall be of uniform grain size and free from micro-porosity, stringers, segregation etc.</p> <p>2. Product Macro-Etch Test: Macro etching shall be done in accordance with ASTM E 340 on the cross section of at least one sample of an extruded log representing per heat, per extrusion campaign to ascertain the extent of peripheral grain growth (PGG). Peripheral grain growth shall not be more than 5 % or 5 mm (whichever is higher) on each side</p>
7.	Certificates and reports:	<p>Manufacturer shall furnish the following certificates and test reports.</p> <ul style="list-style-type: none"> • Product Chemical Analysis • Metallurgical Analysis • Mechanical Test Report • Ultrasonic Inspection Report • Liquid penetrant test Report

III. Technical Specification for Aluminium Alloy Sheets and Plates

S. No	Description	Specification					
1.	Product Form	Sheets and Plates					
2.	Applicable Standard	ASTM B 209 M					
3.	Temper condition	Sheets in T6 condition and Plates in T651 Condition					
4.	Chemical Composition	Element		% by weight			
				Min.	Max.		
		Magnesium		0.8	1.2		
		Silicon		0.4	0.8		
		Copper		0.15	0.4		
		Chromium		0.04	0.35		
		Iron		-	0.7		
		Zinc		-	0.25		
		Manganese		-	0.15		
		Titanium		-	0.15		
		Other impurities, each		-	0.05		
		Other impurities, total		-	0.15		
		Aluminum		Remainder			
5.	Mechanical Properties	Temper	Nominal Thickness, mm	Tensile Strength, MPa (min.)	Y.S at 0.2% offset, MPa (min.)	Elongation in 50mm or 4D % (min.)	
			Over	Incl.			
		T6/T651	0.5	13	290	241	10
			13	25	290	241	9
			25	51	290	241	8
			51	102	290	241	6
			102	152	290	241	6
Hardness: - Plates: 95 HB, Sheets: 107 HV							
Density: 2700 (± 0.5%) Kg/m ³							

6.	Non-destructive Testing	<p>A. <u>Ultrasonic Testing:</u> (Plates only)</p> <ol style="list-style-type: none"> 1. For sheets and plates of thickness less than 12.7mm, ultrasonic inspection shall be done at slab stage as per AMS 2632 (normal beam) and the acceptance level shall be QUALITY CLASS A (Single defect dia 2.0 mm FBH and multiple/linear defects dia 1.2 mm FBH) 2. Plates of thickness 12.7 mm and above shall be ultrasonically inspected in accordance with AMS 2630 (normal beam) and the acceptance level shall be QUALITY CLASS A (Single defect dia 2.0 mm FBH and multiple/linear defects dia 1.2 mm FBH) <p>B. <u>Liquid Penetrant Testing:</u> (Plates only) The liquid penetrant testing shall be carried out as per ASTM E165. The material shall free from all types of surface defects such as cracks and laps</p> <p>C. <u>Bend Testing:</u> (Sheets only) The bend testing shall be carried out as per ASTM A370 for the sheets less than 6.35 mm thick.</p>
7.	Metallurgical characteristics	The material shall be of uniform grain size and free from micro-porosity, stringers, segregation etc.
8.	Certificates and reports:	<p>Manufacturer shall furnish the following certificates and test reports. (as applicable)</p> <ul style="list-style-type: none"> • Product Chemical Analysis • Metallurgical Analysis • Mechanical Test Report • Liquid penetrant test Report • Ultrasonic Inspection Report • Bend test report

LIST OF DELIVERABLES

SL.NO.	DESCRIPTION	QTY. (No.)
1	RIB GORES	240
2	TRIPOD GORES	16
3	GORE FRAME TOP	20
4	GORE FRAME BOTTOM	20

5	GORE BASEPLATE - 4 mm	20
6	GORE BASEPLATE - 2 mm	20
7	GORE TEMPLATE - 1 mm	20
8	TRIPOD GORE FRAME TOP	4
9	TRIPOD GORE FRAME BOTTOM	4
10	TRIPOD BASEPLATE - 4 mm	4
11	TRIPOD BASEPLATE - 2 mm	4
12	TRIPOD GORE TEMPLATE - 1 mm	4
13	M3 X 10 L Socket Head Screws	4500
14	M3 Machined Washer	4500
15	Nylock Nut - M3	4500

ANNEXURE-2 VENDOR DETAILS FORM

Annexure-2: Vendor Details Form

1. Name & Address of the Vendor:
2. Website of the vendor if any:
3. Year of Establishment:
4. Is the company Startup / MSME:
5. Vendor: Manufacturer/Supplier
6. Plant Area:
7. Components Type Manufactured:
8. Details of Manufacturer's production: Continuous/Limited
9. Details of the Infrastructure (List of Major Production & Testing Equipment's)
10. List of major Customers:
11. List of Aerospace & Defence Customers (if any):
12. Component development status: Developed/To be developed
13. Time line for proto submission (if to be developed)
14. Provide PID (if available)
15. Availability of equipment & Technology to develop the component: Yes/No
16. Quality Management System Certification details if any (ISO/AS Standard):
17. Lab Environment / Cleanliness level (if available):
18. ESD Compliance (Standard) (if available):
19. Is the Facility used for commercial products and Aerospace Defence & Space is the same?

Note: Provide Documentary Proof as supporting documents & third party certificate, mandatorily

Signature:

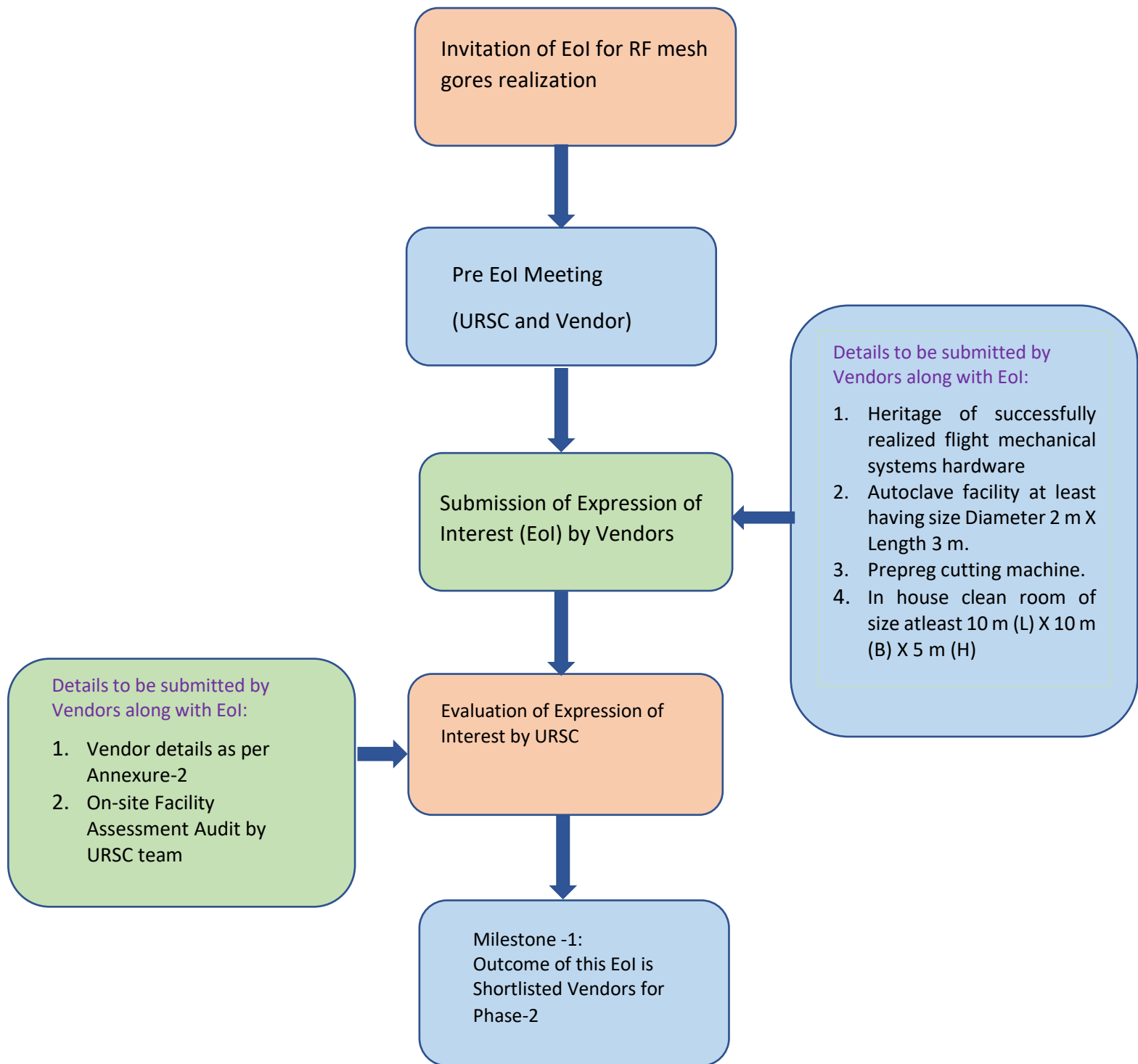
Name of the authorized signatory for the company:

Date:

Place:

ANNEXURE-3 FLOW OF INDIGENISATION

Phase-1: Inviting Expression of Interest (EOI)



Phase-2: 1st Unit Development, Submission & Evaluation flow

