



भारत सरकार/Government of India
अंतरिक्ष विभाग/Department of Space
द्रव नोदन प्रणाली केंद्र
LIQUID PROPULSION SYSTEMS CENTRE
एच ए एल II स्टेज, 80 फीट रोड
HAL II STAGE, 80 FEET ROAD,
बेंगलुरु/BANGALORE-560 008.
फोन सं./Phone No.080 25037171/140
ई-मेल/Email: purchase@lpscb.gov.in



दिनांक/Date: 24.03.2025

लोक निविदा सूचना सं. एल बी2025000037-01 दिनांक 24.03.2025
PUBLIC TENDER NOTICE NO. LB2025000037-01 DATED 24.03.2025

वी ई एस पी ई एल एस पी-1 छड़ों के प्रापण हेतु निविदा
Tender for procurement of VESPEL SP-1 Rods

निविदा वर्गीकरण : लोक निविदा
Tender Classification: PUBLIC TENDER

निविदा की निर्धारित तिथियाँ/TENDER SCHEDULE

बोली प्रस्तुति की आरंभिक तिथि/Bid Submission Start Date	: 24.03.2025 14:00
बोली स्पष्टीकरण की नियत तिथि/Bid Clarification Due Date	: 08.04.2025 14:00
बोली प्रस्तुतीकरण की नियत तिथि/Bid Submission Due Date	: 22.04.2025 14:00
बोली खुलने की तिथि/Bid Opening Date	: 22.04.2025 14:00

निविदा दस्तावेज़ <https://www.isro.gov.in/> OR <https://eproc.vssc.gov.in> या इसरो ई-प्रापण पोर्टल से डाउनलोड किए जा सकते हैं।/Tender documents can be downloaded from <https://www.isro.gov.in/> OR <https://eproc.vssc.gov.in> or ISRO E-Procurement Portal.

हस्ताक्षरित/Signed
क्रय व भंडार अधिकारी/Purchase & Stores Officer

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)
BANGALORE**

Tender for PROCUREMENT OF VESPEL SP-1 RODS

Bids to be submitted online

**Tender No.: LPSC-B/Liquid Propulsion Systems Centre,
Bengaluru/LB202500003701 dated 24-03-2025**

A. Tender Details

Tender No :	LPSC-B/Liquid Propulsion Systems Centre, Bengaluru/LB202500003701
Tender Date :	24-03-2025
Tender Classification:	GOODS
Purchase Entity :	Liquid Propulsion Systems Centre, Bengaluru
Centre :	LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)

PROCUREMENT OF VESPEL SP-1 RODS

PROCUREMENT OF VESPEL SP-1 RODS

A.1 Tender Schedule

Bid Submission Start Date :	24-03-2025 14:00
Bid Clarification Due Date :	08-04-2025 14:00
Bid Submission Due Date :	22-04-2025 14:00
Bid Opening Date :	22-04-2025 14:00

B. Tender Attachments

NA

Instructions To Vendors

1. Instructions to Vendors

1. LPSC(B) invites offers through eprocurement portal (<https://eproc.isro.gov.in>) for the supply / service of items as listed in the Tender document.

2. Prospective vendors interested in participating in the tendering process need to get registered in the e-procurement portal by using Digital Signature Certificate. Offers submitted through our online portal only shall be considered and offers received through fax or email or in person shall not be considered.

3. The Tenderers are requested to update their address and contact details, if necessary and submit the Bids online at least two days prior to closing date to avoid last minute system / network related problems. In case of any technical issues, tenderers may write to helpdesk team (eprocure@vssc.gov.in, egps@lpscb.gov.in) for resolution. Request for the extension of the due date for such instances shall not be considered.

4. GST @ 5% is applicable for following goods mentioned under Sl. No. 243B as per Department of Revenue Notification No. 25/2018 - Integrated Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 07/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Department of Revenue Notification No. 24/2018 - Central Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Government of Karnataka Notification No. 24/2018 dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 29/06/2017).

"Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for Launch Vehicles and Satellites and Payloads"

5. LPSC(B), ISRO is eligible for Customs Duty Concession vide Notification No.12/2012-Customs dated 17/03/2012 and Notification No. 50/2017-Customs dated 30/06/2017. Necessary Customs Duty Concession Certificate shall be provided if applicable.

6. Offer Validity: The offer shall be valid for a period of 90 days (for Single Part Tender) and 120 days (for Two Part Tender) from the date of opening of the tender or any other period as specified in the Tender document. Offers with lesser validity period than that specified are liable for exclusion from the procurement process.

7. In case of Two Part Tender, Tenderers shall not mention any kind of price element in Techno-Commercial Bid. If any Price element is mentioned in the Techno-Commercial bid, their offer shall be liable for rejection.

8. LPSC(B) reserves the right to accept or reject any quotation in part or in full or part without assigning any reason thereof. LPSC(B) shall be under no obligation to accept the lowest tender and reserves the right to accept whole or any part of the tender or part of the quantity offered and the Tenderers shall supply the same at the rates quoted.

9. Bank Details: Tenderer shall provide their bank details such as IFSC code, IBAN No. , SWIFT etc. along with their offer which shall be not be changed till completion of supply/service.

10. Applicable Law: The Contract shall be governed by Indian Law for the time being in force and jurisdiction shall lie in the Courts of India.

11. Only Class-I and Class-II Local suppliers as per Public Procurement Policy (Preference to Make in India) Order, 2017 are eligible to participate in the bid unless otherwise specified in the Tender document.

12. As far as implementation of Public Procurement Policy (Preference to Make in India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dated 15/06/2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dated 28/05/2018, Order No. P-45021/2/2017-PP(BE-II) dated 29/05/2019, Order No. P-45021/2/2017-PP (BE-II) dated 04/06/2020 and Order No. P-45021/2/2017-PP (BE-II) dated 16/09/2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade (DPIIT), Ministry of Commerce and Industry regarding Class-I / Class-II local suppliers, Purchase preference, verification of local contents etc. shall be applicable to this tender unless otherwise specified in the Tender document. Therefore, bidders may ensure compliance of the same while submitting tenders.

13. Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 unless otherwise specified in the Tender document. Such MSEs shall produce documentary proof of registration as per provisions of the Policy i.e. registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum or any other body specified by Ministry of MSME.

14. As per the Rule 144 (xi) of General Financial Rules,2017, any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

15. Resolution of Disputes: Any dispute, disagreement or question arising out of or relating to or in consequence of the contract or to its fulfillment, or the validity of enforcement thereof which cannot be settled mutually, or the settlement of which is not herein specifically provided for, shall within 30 (thirty) days from the date either party informs the other in writing that such dispute or disagreement exists be referred to arbitration by the sole arbitrator. The Arbitrator shall be appointed as per the Indian Arbitration and Conciliation Act 1996 and proceedings will be conducted in Bangalore. The Arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act 1996 (Act 26 of 1996) as amended from time to time and the decision of the Arbitrator shall be final and binding on the parties thereto. Each party shall bear its own cost of preparing and presenting its case. The cost of Arbitration including the fees and expenses of the Arbitrator shall be shared equally by the parties unless the award provides otherwise. Subject to provisions of this clause, the courts at Bangalore shall have exclusive jurisdiction. Performance under this Contract shall, however continue during Arbitration proceeding and no payment due or payable by the parties hereto shall be withheld unless any such payment is/or forms a part of the subject matter of the Arbitration proceedings.

16. Force Majeure: Neither party shall bear responsibility for the complete or partial non-performance of any of his obligations if the non-performance results from such force majeure circumstances such as, but not restricted to, flood, fire, earthquake, civil commotion, sabotage, explosion, epidemic, quarantine restriction, strike, lock-out, freight embargo, acts of the Government, acts of public enemy and other acts of God as well as war or revolution, military operation, blockade, acts or actions of State authorities or any other circumstance beyond the control of the parties provided the other party is notified in writing within 21 days from the date of commencement of the unforeseeable event.

C. Bid Templates

C.1 Technical Bid - PROCUREMENT OF VESPEL SP-1 RODS

1. VESPEL RODS (VESPEL SP-1) Dia 19 mm x 965 mm length

Item specifications for VESPEL RODS (VESPEL SP-1) Dia 19 mm x 965 mm length

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Tensile Strength @ 23°C	86.2 MPa	Yes / No / Explain		
2	Flexural Strength @ 23°C	110.3 MPa	Yes / No / Explain		
3	Compressive Stress (at 1% strain) @ 23°C	24.8 MPa	Yes / No / Explain		
4	Compressive modulus @ 23°C	2413 MPa	Yes / No / Explain		
5	Poisson's Ratio @ 23°C	0.41	Yes / No / Explain		
6	Coefficient of Linear Expansion @ 23°C	54 µm/m/°C	Yes / No / Explain		
7	Thermal Conductivity @ 23°C	0.35 W/m.°C	Yes / No / Explain		
8	Dielectric constant (at 100 Hz) @ 23°C	3.62	Yes / No / Explain		
9	Dielectric strength (short term) @ 23°C	22 MV/m	Yes / No / Explain		

Document : Specification

2. VESPEL RODS (VESPEL SP-1) Dia 31.7 mm x 100 mm length

Item specifications for VESPEL RODS (VESPEL SP-1) Dia 31.7 mm x 100 mm length

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Tensile Strength @ 23°C	86.2 MPa	Yes / No / Explain		

2	Flexural Strength @ 23°C	110.3 MPa	Yes / No / Explain		
3	Compressive Stress (at 1% strain) @ 23°C	24.8 MPa	Yes / No / Explain		
4	Compressive modulus @ 23°C	2413 MPa	Yes / No / Explain		
5	Poisson's Ratio @ 23°C	0.41	Yes / No / Explain		
6	Coefficient of Linear Expansion @ 23°C	54 µm/m/°C	Yes / No / Explain		
7	Thermal Conductivity @ 23°C	0.35 W/m.°C	Yes / No / Explain		
8	Dielectric constant (at 100 Hz) @ 23°C	3.62	Yes / No / Explain		
9	Dielectric strength (short term) @ 23°C	22 MV/m	Yes / No / Explain		

Document : Specification

3. VESPEL RODS (VESPEL SP-1) Dia 50.8 mm x 100 mm length

Item specifications for VESPEL RODS (VESPEL SP-1) Dia 50.8 mm x 100 mm length

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Tensile Strength @ 23°C	86.2 MPa	Yes / No / Explain		
2	Flexural Strength @ 23°C	110.3 MPa	Yes / No / Explain		
3	Compressive Stress (at 1% strain) @ 23°C	24.8 MPa	Yes / No / Explain		
4	Compressive modulus @ 23°C	2413 MPa	Yes / No / Explain		
5	Poisson's Ratio @ 23°C	0.41	Yes / No / Explain		
6	Coefficient of Linear Expansion @ 23°C	54 µm/m/°C	Yes / No / Explain		
7	Thermal Conductivity @ 23°C	0.35 W/m.°C	Yes / No / Explain		
8	Dielectric constant (at 100 Hz) @ 23°C	3.62	Yes / No / Explain		

9	Dielectric strength (short term) @ 23°C	22 MV/m	Yes / No / Explain		
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Document : Specification

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Tensile Strength @ 23°C	86.2 MPa	Yes / No / Explain		
2	Flexural Strength @ 23°C	110.3 MPa	Yes / No / Explain		
3	Compressive Stress (at 1% strain) @ 23°C	24.8 MPa	Yes / No / Explain		
4	Compressive modulus @ 23°C	2413 MPa	Yes / No / Explain		
5	Coefficient of Linear Expansion @ 23°C	54 µm/m/°C	Yes / No / Explain		
6	Thermal Conductivity @ 23°C	0.35 W/m.°C	Yes / No / Explain		
7	Dielectric strength (short term) @ 23°C	22 MV/m	Yes / No / Explain		
8	Poisson's Ratio @ 23°C	0.41 (no units)	Yes / No / Explain		
9	Dielectric constant (at 100 Hz) @ 23°C	3.62 (no units)	Yes / No / Explain		

Supporting Documents required from Vendor

1. Material conformance certificate should be supplied by the party

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Item should be of single length and properly packed	Yes / No / Explain	
2	Goods and Services Tax (GST): Kindly mention percentage of GST considered in your offer along with HSN Code.	Yes / No / Explain	
3	Duties & Levies for Foreign supply: a) LPSC is providing concession certificate towards the payment of Customs Duty vide as per the Customs Notification No. 50/2017, Sl. No. 539(b)-CUSTOMS Dated 30.06.2017 & Amendment No: 5/2018, Sl. No. 539(A) CUSTOMS Dated: 25/01/2018. b) GST is not applicable for imported items.	Yes / No / Explain	
4	.Delivery Terms: FOR LPSC, Bangalore	Yes / No / Explain	
5	Delivery Terms for Foreign Supplier: EX-WORKS / FOB /FCA	Yes / No / Explain	
6	Delivery Period: The supply shall be completed within 2 weeks from the date of receipt of PO	Yes / No / Explain	
7	Payment Terms: 100% payment shall be made within 30 days of receipt and acceptance of the items at our site.	Yes / No / Explain	
8	Payment Terms for Foreign Orders: Payment term shall be Sight Draft OR 90% by Irrevocable Letter of Credit and balance 10% by wire transfer after receipt (including installation & commissioning) and / or acceptance of the ordered item.	Yes / No / Explain	
9	Liquidated Damages (LD): If the ordered items are not supplied within the delivery schedule, LD shall be levied from your bill @ 0.5% of the order value per week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay subject to a maximum of 5% of the order value. However, in case of inordinate delay in completion period, LD @ 10% shall be recovered.	Yes / No / Explain	

10	Warranty: The items shall be warranted for a minimum period of 12 months from the date of supply or acceptance of items at our site which ever is later. Necessary warranty certificate shall be furnished along with the supply.	Yes / No / Explain	
11	Performance Bank Guarantee (PBG): You have to submit PBG towards fulfilment of warranty obligations and performance of the system for 3% of the Order Value from a Nationalized / Scheduled Bank on non-judicial stamp paper of appropriate value valid till the completion of warranty period plus 60 days as per the format provided by Department.	Yes / No / Explain	
12	Insurance: Being a Government of India Department, Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper AIR / SEA / ROAD worthy packing.	Yes / No / Explain	
13	In case of foreign orders: (a) Please specify whether any Export clearance is required. If it is required please provide End User Certificate format along with offer. (b) Please specify whether any Agency Commission is involved or not. If YES mention the percentage of Agency Commission. [Agency Commission shall be claimed by the Indian Agent through an Invoice. The Agency Commission shall be paid to the Indian Agent in Indian Rupees worked out on the basis of Telegraphic Transfer buying rate of exchange prevailing on the date of placement of the Purchase order/Contract and shall be paid within 30 days from the date of satisfactory acceptance of the item at our site. Distributors are not eligible for Agency Commission]	Yes / No / Explain	
14	Special conditions against Indian Agents submitting quotations in Foreign Currency: (a) Foreign Principals proforma invoice indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent. (b) Copy of Agency agreement with the Foreign Principal and Indian agent, precise relationship between them and their mutual interest in the business. (c) Copy of registration and item empanelment of the Indian agent.	Yes / No / Explain	

15	The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender) the same will be not be considered.	Yes / No / Explain	
16	In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product will not be considered.	Yes / No / Explain	
17	Validity of offer: 90 days (for Single Part Tender) / 120 days (for Two Part Tender) from the date of opening of tender or as specified in the Tender Document.	Yes / No / Explain	
18	Address, contact details like Telephone Number, e-mail, etc. on which order to be placed.	Yes / No / Explain	
19	Details of Principal: Address, contact details like Telephone Number, e-mail, etc. (if applicable)	Yes / No / Explain	
20	Details of Indian Agent: Address, contact details like Telephone Number, Fax, e-mail etc., (if applicable)	Yes / No / Explain	
21	Bank Details: Bank name, Branch address, Account No., IFSC Code, IBAN Number, SWIFT, etc.	Yes / No / Explain	
22	Any other terms:	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	VESPEL RODS (VESPEL SP-1) Dia 19 mm x 965 mm length	1.00 Nos.		-		
2	VESPEL RODS (VESPEL SP-1) Dia 31.7 mm x 100 mm length	1.00 Nos.		-		
3	VESPEL RODS (VESPEL SP-1) Dia 50.8 mm x 100 mm length	1.00 Nos.		-		

Common charges (Applicable for all items)

P & F Charges	
Freight if any (Value)	
Installation & Configuration	
Other Costs, if any (Value)	
Taxes, if any (Percentage)	

Specification of VESPEL SP-1 rod

	Parameter	Specification
	Mechanical properties	
1.	Tensile Strength	86.2 MPa
2.	Flexural Strength	110.3 MPa
3.	Compressive Stress (at 1% strain)	24.8 MPa
4.	Compressive modulus	2413 MPa
5.	Poisson's Ratio	0.41
	Thermal properties	
6.	Coefficient of Linear Expansion	54 $\mu\text{m/m}/^{\circ}\text{C}$
7.	Thermal Conductivity	0.35 W/m. $^{\circ}\text{C}$
	Electrical properties	
8.	Dielectric constant (at 100 Hz)	3.62
9.	Dielectric strength (short term)	22 MV/m
	Above specifications has to be met at temperature of 23 $^{\circ}\text{C}$	

- Material conformance certificate should be supplied by the party.
- Item should be of single length rod and packed properly.
- Item should be delivered to LPSC, Bangalore.
- Delivery period: 2 weeks from the Date of receipt of PO.