

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
LIQUID PROPULSION SYSTEMS CENTRE, VALIAMALA (LPSC)  
THIRUVANANTHAPURAM**

## **Tender for PRESSURE TRANSMITTER**

**Bids to be submitted online**

**Tender No.: LPSC/LVF/LP202400057901 dated 09-08-2024**

## A. Tender Details

Tender No :	<b>LPSC/LVF/LP202400057901</b>
Tender Date :	<b>09-08-2024</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>LVF</b>
Centre :	<b>LIQUID PROPULSION SYSTEMS CENTRE, VALIAMALA (LPSC)</b>

### PRESSURE TRANSMITTER

For and on behalf of the President of India, the Head, Purchase and Stores, Liquid Propulsion Systems Centre (LPSC), Valiamala , Thiruvananthapuram invites tenders through e-procurement mode; <https://eproc.isro.gov.in>.

Prospective vendors interested in participating in the tendering process need to get registered in the portal by using Digital Signature Certificate. Offers submitted through our online portal only will be considered and no other means will be considered.

Detailed instructions for vendor registration, bid submission etc. are available in the portal <https://eproc.isro.gov.in>. A help desk is also functioning to assist the vendors whose details are available in the portal.

THIS IS A TWO PART TENDER. TECHNO-COMMERCIAL [PART-I] AND PRICE BID [PART-II] SHOULD BE SUBMITTED SEPARATELY. IF TECHNO-COMMERCIAL BID [PART-I] CONTAINS PRICE DETAILS OF ANY NATURE THEN THE OFFER WILL BE REJECTED SUMMARILY.

CLASS I AND CLASS II LOCAL SUPPLIERS ARE ONLY ELIGIBLE TO PARTICIPATE IN THE TENDER. A SELF DECLARATION SHOWING THE STATUS OF YOUR FIRM SUBJECT TO LOCAL CONTENT INVOLVED IN THE QUOTED ITEM ALONG WITH DETAILS OF VALUE ADDITION PLACE SHALL BE STRICTLY FURNISHED ALONG WITH YOUR OFFER WITHOUT WHICH YOUR OFFER WILL NOT BE CONSIDERED.

#### A.1 Tender Schedule

Bid Submission Start Date :	<b>09-08-2024 11:00</b>
Bid Clarification Due Date :	<b>16-08-2024 12:00</b>

Bid Submission Due Date : **09-09-2024 12:00**

Bid Opening Date : **09-09-2024 12:05**

Price Bid Opening Date : **16-09-2024 12:00**

## **B. Tender Attachments**

### **Technical Write-up/Drawings**

**Document : spec**

### **Instructions To Vendors**

2. THIS IS A TWO PART TENDER. TECHNO-COMMERCIAL [PART-I] AND PRICE BID [PART-II] SHOULD BE SUBMITTED SEPARATELY. IF TECHNO-COMMERCIAL BID [PART-I] CONTAINS PRICE DETAILS OF ANY NATURE THEN THE OFFER WILL BE REJECTED SUMMARILY.

## C. Bid Templates

### C.1 Technical Bid - PRESSURE TRANSMITTER

#### 1. PRESSURE TRANSMITTER

##### Item specifications for PRESSURE TRANSMITTER

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Connection Type	In-line, Scalable Absolute pressure transmitter	Yes / No / Explain		
2	Sensor Type	Piezoresistive sensor	Yes / No / Explain		
3	Material for Isolating diaphragm	316L SS	Yes / No / Explain		
4	Measurement Type	Absolute	Yes / No / Explain		
5	Measurement Range	0 to 50 bar $\pm$ 10%	Yes / No / Explain		
6	Accuracy	$\pm$ 0.025% span	Yes / No / Explain		
7	Range down	200:1	Yes / No / Explain		
8	Transmitter output	4–20 mA with digital signal based on HART® protocol	Yes / No / Explain		
9	Stability	5-year minimum	Yes / No / Explain		
10	Process connection	1/2–14 NPT female	Yes / No / Explain		
11	Transmitter Display type	LCD display	Yes / No / Explain		
12	Housing Type	Material : Aluminium, Conduit entry size : 1/2–14 NPT	Yes / No / Explain		
13	Hardware adjustments	Hardware adjustments (zero, span, alarm, security)	Yes / No / Explain		
14	Product certifications	USA Explosion-proof, Dust Ignition-proof	Yes / No / Explain		

15	Calibration certification	Required, Calibration shall be traceable to National Standards	Yes / No / Explain		
16	Power supply	15 to 30 VDC.	Yes / No / Explain		
17	Nominal Operating Temperature	0 – 50 DegC	Yes / No / Explain		
18	Warranty	5 year minimum	Yes / No / Explain		
19	Quantity	15 nos.	Yes / No / Explain		

**Document : spec.**

## 2. Absolute Pressure Transmitter (SMART)

### Item specifications for Absolute Pressure Transmitter (SMART)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Connection Type	In-line, Scalable Absolute pressure transmitter	Yes / No / Explain		
2	Sensor Type	Piezoresistive sensor	Yes / No / Explain		
3	Material for Isolating diaphragm	Alloy C-276	Yes / No / Explain		
4	Measurement Type	Absolute	Yes / No / Explain		
5	Measurement Range	0 to 50 bar $\pm 10\%$	Yes / No / Explain		
6	Accuracy	$\pm 0.025\%$ span	Yes / No / Explain		
7	Range down	200:1	Yes / No / Explain		
8	Transmitter output	4–20 mA with digital signal based on HART® protocol	Yes / No / Explain		
9	Stability	5-year minimum	Yes / No / Explain		
10	Process connection	$\frac{1}{2}$ –14 NPT female	Yes / No / Explain		
11	Transmitter Display type	LCD display	Yes / No / Explain		

12	Housing Type	Material : Aluminium, Conduit entry size : ½–14 NPT	Yes / No / Explain		
13	Hardware adjustments	Hardware adjustments (zero, span, alarm, security)	Yes / No / Explain		
14	Product certifications	USA Explosion-proof, Dust Ignition-proof	Yes / No / Explain		
15	Calibration certification	Required, Calibration shall be traceable to National Standards	Yes / No / Explain		
16	Power supply	15 to 30 VDC	Yes / No / Explain		
17	Nominal Operating Temperature	0 – 50Deg C	Yes / No / Explain		
18	Warranty	5 year minimum	Yes / No / Explain		
19	Quantity	10 nos.	Yes / No / Explain		

### Supporting Documents required from Vendor

#### 1. Calibration report sample

#### 2. Technical and Commercial compliance statement

#### 3. Detailed catalogue of quoted product

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	<p>As per the Rule 144(xi) of General Financial Rule ,2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy service and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT). Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.</p>	Yes / No / Explain	
2	<p>Whether applicable GST percentage mentioned in your offer.(We are eligible for IGST @ 5% as per the Department of Revenue Notification No. 25/2018 Integrated Tax (Rate) Schedule-I; Sl.No.243B dated 31.12.2018 (Amendment to Notification No. 7/2018 - Integrated Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 - Integrated Tax (Rate) dated 28.06.2017 ) (If mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Remarks Column).</p>	Yes / No / Explain	
3	<p>Delivery Term :- FOR : LPSC, VALIAMALA If "NO" specify the exact delivery term with relevant details in remarks column</p>	Yes / No / Explain	
4	<p>Delivery Period (If any specific delivery period is mentioned in the tender, please comply the same. If not agreed, please mention your delivery period in remarks column OR if already mentioned in your quote please mention as already furnished in the quote)</p>	Yes / No / Explain	



5	Payment Term :- (a)100% payment shall be made through RTGS within 30 days of receipt and acceptance of the item at our site.	Yes / No / Explain	
6	Liquidated Damages (LD) :- If the ordered items are not supplied within the delivery schedule, LD shall be levied from your bill @ 0.5% per week for the undelivered items subject to a maximum of 10% of the order value for the delayed period.	Yes / No / Explain	
7	Warranty :- Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of FIVE years or as specified in the tender document.	Yes / No / Explain	
8	Security Deposit (SD) :- (only for order value above Rs.5 Lakh) You have to furnish a Bank Guarantee for 3% of the order value (from a bank of international repute in case of foreign vendors) within 10 days of receipt of Order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days. (This will be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount will be forfeited).	Yes / No / Explain	
9	Performance Bank Guarantee (PBG) :- You have to submit a PBG from a Nationalised / Scheduled Bank (from a bank of international repute incase of foreign vendors) for 3% of the order value towards the performance of the system at the time of supply valid till the completion of warranty period plus 60 days as per the format provided by the Department. OR 3% OF THE ORDER VALUE SHALL BE WITH HELD TILL THE COMPLETION OF WARRANTY PERIOD PLUS 60 DAYS.	Yes / No / Explain	

10	In case, if parties are unable to provide two separate BGs, i.e., one for SD and one for PBG, they can submit a combined BG for SD & PBG within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e., supply period plus warranty period plus 60 days) as per the format provided by the Department.	Yes / No / Explain	
11	Insurance :- Being a Govt. Of India Dept., 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	
12	Validity of Offer :-  (a)The validity of the offers should be 90 days (in case of single part tender) from the date of opening of the tenders. (b)The validity of the offers should be 120 days (in case two part tender) from the date of opening of the tenders.  Note :- Tenders shorter than offer validity mentioned above will not be considered for evaluation.	Yes / No / Explain	
13	Bank Details, viz., Bank Name, Branch, Address, Account No., IFSC (Details to be given in Vendor Terms Column)	Yes / No / Explain	
14	PAN No. (Details to be furnished in Vendor Terms Column)	Yes / No / Explain	
15	GST No. (Details to be given in Vendor Terms Column)	Yes / No / Explain	
16	Purchase Order to be placed on whom (Please mention the Address, Phone No. & E-mail id )	Yes / No / Explain	
17	HSN Code of offered items	Yes / No / Explain	
18	Local content involved in the quoted item shall be declared/ certified in percentage.	Yes / No / Explain	
19	Furnish the details of place(s) where the value addition for the quoted item takes place.	Yes / No / Explain	
20	State whether MSE OEM or not. If yes, please provide the necessary documentary proof	Yes / No / Explain	
21	Acceptance to Part Order	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Other Costs, if any	Remark
1	PRESSURE TRANSMITTER	15.00 Nos.		-			
2	Absolute Pressure Transmitter (SMART)	10.00 Nos.		-			

#### Common charges (Applicable for all items)

Additional Costs, if any	
Additional Costs, if any (Value)	