

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

Tender for RTD signal conditioning modules

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT-IV (MVIT)/VS202400608401 dated 07-11-2024

A. Tender Details

Tender No :	VSSC/PURCHASE UNIT-IV (MVIT)/VS202400608401
Tender Date :	07-11-2024
Tender Classification:	GOODS
Purchase Entity :	PURCHASE UNIT-IV (MVIT)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

RTD signal conditioning modules

Splitting of Order not allowed for this Tender Enquiry due to technical reasons.

Please go through the tender enquiry specification before quoting.

Please quote as per the following terms and conditions before the due date. Clarifications, if any shall be sought before the clarification date mentioned below. Last minute clarification on tender/extension of due date of tender will not be entertained.

Quotation/Open Authorization shall be submitted online [only] complying the specified schedule with technical specifications, including datasheets, pamphlets, catalogues etc.

If a vendor is not able to submit bid against this tender due to any reason, such vendor is requested to post their REGRET message in the e-procurement portal with clear reasons or email to spso_mvrit_pur@vssc.gov.in. Non-submission of bids without regrets will be viewed seriously.

A.1 Tender Schedule

Bid Submission Start Date :	07-11-2024 13:00
Bid Clarification Due Date :	21-11-2024 14:00
Bid Submission Due Date :	06-12-2024 11:46
Bid Opening Date :	06-12-2024 12:00

B. Tender Attachments

NA

Instructions To Vendors

1. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. 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).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

2. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

1. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. (a) All available technical literature, catalogues and other data in support of the specifications and

details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

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3. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 90 days from the date of opening of the tender.

b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear

Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

8. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

9. PACKING FORWARDING & INSURANCE: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

10. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.

11. PRICES: Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

12. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

13. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

15. TERMS & CONDITIONS OF TENDER

16. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

17. The authority of the person signing the tender, if called for, should be produced.

18. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

19. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

20. The tenderer should supply along with his tender, the name of his bankers as well as the latest

Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

21. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

22. The term Purchaser shall mean the President of India or his successors or assigns.

23. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

3. Terms and conditions as per Annexure attached.

Offers submitted without accepting our Tender conditions especially LD PBG Warranty and SD clauses shall be summarily rejected.

GST as per HSN code will be paid extra. All Tax invoices shall invariably bear their GST Registration No and the applicable GST rates, in the absence of which the invoices shall not be processed for payment.

For registering into PFMS you may please mention your Bank details such as IFSC code Account number also submit a copy of personalized cheque leaf or NEFT mandate form duly endorsed by the Bank along with quotation. If you had already submitted these details no need to submit again but please inform the same.

Please furnish the following

- a. Copy of valid manufacturing license of the agency certificate
- b. copy of latest filed tax returns
- c. Details of registration number, PAN Card, GST, TIN, NSIC, MSME registration etc.
- d. The addresses registered site works, workshop, etc.
- e. Sub contracting details with address if permissible.

Special Terms and condition: -

- 1) Foreign vendors are not allowed to quote against this Tender.
- 2) Only Class I and Class II Local suppliers as per Make in India Policy are eligible to participate in the bid subject to production of an undertaking regarding the following: -
 - A) The percentage of local content should be specifically mentioned in the offer, without which it shall be summarily rejected.
 - B) Preference will be given to Class I Local supplier and in their absence, Class II Local Supplier will be considered.

Please Note: Splitting of Order not allowed for this Tender Enquiry due to technical reasons.

C. Bid Templates

C.1 Technical Bid - RTD signal conditioning modules

1. Temperature Signal Conditioner module for RTD type PT100

Item specifications for Temperature Signal Conditioner

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	RTD type	PT100 with resistance range 0 to 400 ohms or better	Yes / No / Explain		
2	Input excitation current	<2mA	Yes / No / Explain		
3	Input sensor wiring scheme	3 wire (native 3-wire support) or better	Yes / No / Explain		
4	Output type	Voltage	Yes / No / Explain		
5	Output voltage range	0 to 5V or 0 to 10V preferred	Yes / No / Explain		
6	Number of channels	1	Yes / No / Explain		
7	Output Accuracy	+/-0.5% of full scale reading at 25deg Celsius or better (including linearity and hysteresis)	Yes / No / Explain		
8	Response time	<300ms	Yes / No / Explain		
9	Isolation	3 way isolation (input/output/power), 1.5kV, 300VDC min	Yes / No / Explain		
10	Operating power supply	24V preferred	Yes / No / Explain		
11	Mouting scheme	Din rail top hat 35mm mountable preferred	Yes / No / Explain		
12	operating Temperature	0 to 55 deg Celsius or better	Yes / No / Explain		
13	Humidity	5 to 90% non condensing	Yes / No / Explain		

14	Accessories	Programming device for configuring the module if any to be supplied (1 no)	Yes / No / Explain		
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2. Temperature Signal Conditioner module for RTD type PT500

Item specifications for Temperature Signal Conditioner

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	RTD type	PT500 with resistance range 0 to 1500 ohms or better	Yes / No / Explain		
2	Input excitation current	<2mA	Yes / No / Explain		
3	Input sensor wiring scheme	3 wire (native 3-wire support) or better	Yes / No / Explain		
4	Output type	Voltage	Yes / No / Explain		
5	Output voltage range	0 to 5V or 0 to 10V preferred	Yes / No / Explain		
6	Number of channels	1	Yes / No / Explain		
7	Output accuracy	+/-0.5% of full scale reading at 25deg Celsius or better (including linearity and hysteresis)	Yes / No / Explain		
8	Response time	<300 ms	Yes / No / Explain		
9	Isolation	3 way isolation (input/output/power), 1.5kV, 300 VDC min	Yes / No / Explain		
10	Operating power supply	24V preferred	Yes / No / Explain		
11	Mounting scheme	Din rail top hat 35mm mountable preferred	Yes / No / Explain		
12	Operating temperature	0 to 55 deg Celsius or better	Yes / No / Explain		
13	Humidity	5 to 90% non condensing	Yes / No / Explain		
14	Accessories	Programming device for configuring the modules if any to be supplied (1 no)	Yes / No / Explain		

Supporting Documents required from Vendor

1. Programming device manual if any

2. Test report if any

3. User manual if any

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Programming kit if any one number to be provided for each item	Yes / No / Explain	
2	Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content : a) equal to more than 50%: Class-I local supplier, b) More than 20% but less than 50%, Class-II local supplier c) Less than or equal to 20%, Non local supplier. Mention your category.	Yes / No / Explain	
3	Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.	Yes / No / Explain	
4	The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made and breakup of the local content percentage. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.	Yes / No / Explain	

5	Taxes and other costs, if any Note: "In line with Notification No. 01/2017-Central Tax (Rate) dated 28-06-2017, as amended by Notification No. 06/2018-Central Tax (Rate) dated 25-01-2018 and Notification No. 24/2018 Central Tax (Rate) dated 31-12-2018 and corresponding SGST Rate Notifications, GST rate for the goods at Sl. No. 243 B: "Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock up and modules, raw material and consumable required for Launch Vehicles and Satellites and Payloads" is 2.5% CGST and 2.5% SGST. IGST is charged at 5 % in terms of Notification No. 01/2017-IGST dated 28-06-2017 as amended by Notification No. 07/2018 IGST dated 25-01-2018 and Notification No. 25/2018 IGST dated 31-12-2018, necessary IGST/CGST/SGST certificate shall be issued".	Yes / No / Explain	
6	Quote Validity: Minimum 120 days	Yes / No / Explain	
7	Warranty period	Yes / No / Explain	
8	Payment term: (Our Defalut payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site.)	Yes / No / Explain	
9	Delivery Term (FOR, VSSC):	Yes / No / Explain	
10	Delivery period	Yes / No / Explain	
11	Performance Bank Guarantee: PBG shall be @ 3%. The said percentage reconsideration shall be based on guidelines issued by Govt of India, from time to time.	Yes / No / Explain	
12	Liquidated Damages L/D @ 0.5% subject to maximum 10% of the order value is applicable beyond the promised delivery schedule	Yes / No / Explain	

13	Security Deposit :(Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indentity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited). SD shall be @ 3%. The said percentage reconsideration shall be based on guidelines issued by Govt of India, from time to time.	Yes / No / Explain	
14	PO ordering address with Name and contact details of sales person concerned (email and ph. No.) Bank details: Bank name , IFSC Code, Account No. Etc Copy of latest filed tax returns Details of registration, PAN card, NSIC, MSME, GST , TIN etc.	Yes / No / Explain	
15	Any other terms	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Temperature Signal Conditioner module for RTD type PT100	20.00 Nos.		-		
2	Temperature Signal Conditioner module for RTD type PT500	10.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
P&F Charges	