

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

Tender for piezoelectric charge and ICP type signal conditioner

Bids to be submitted online

**Tender No.: VSSC/PURCHASE UNIT IX (IISU PURCHASE)/VS202100354701 dated
06-01-2022**

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT IX (IISU PURCHASE)/VS202100354701**

Tender Date : **06-01-2022**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT IX (IISU PURCHASE)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

Procurement of piezoelectric charge and ICP type signal conditioner

Procurement of piezoelectric charge.

A.1 Tender Schedule

Tender Publish Date : **06-01-2022 17:00**

Bid Clarification Due Date : **31-01-2022 10:41**

Bid Submission Start Date : **04-02-2022 10:48**

Bid Submission Due Date : **23-02-2022 10:50**

Bid Opening Date : **24-02-2022 10:50**

Price Bid Opening Date : **10-03-2022 10:45**

A.2 Pre-bid Meeting Details

Date : **16-01-2022 14:30**

Place : **IISU, Vattiyookavu, Trivandrum**

Location : **Visitors Hall, IISU, Vattiyookavu, Trivandrum**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC), THIRUVANANTHAPURAM, KERALA**

Details :

Pre-bid meeting for clearing technical clarifications, if any.

B. Tender Attachments

NA

Instructions To Vendors

1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER where the indent value is Rs. 2.00 lakhs & above for indigenous stores items

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.
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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.
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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.

2. PPP Make in India(Divisible Items-Class I & II Local Suppliers)

1. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.
2. a) The subject item falls under divisible category. b) The offers are sought from Class I & II Local Suppliers.
3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 20%: Non-local supplier.
4. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.
5. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
6. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.
7. In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-
8. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
9. '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.

10. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).

11. Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is greater than 1 or not a package basis):

i.If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder.

ii.If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1.

Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).

iii.In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder.

iv.In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor.

v.In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price.

vi.Regarding MSEs (Indian vendors):

a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender.

b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy.

c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.

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c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.

13. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content [as per Sl. No.(3)] as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC(minimum Local Content) in technical bid zone.

14. The ink-signed certificate shall be provided on vendors letter head along with the offer (in case of online tender, copy of ink-signed certificate shall be uploaded along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.

15. The margin of Purchase Preference shall be up to 20%.

16. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.

17. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

C. Bid Templates

C.1 Technical Bid - piezoelectric charge and ICP type signal conditioner

1. piezoelectric charge and ICP signal conditioner

Item specifications for piezoelectric charge and ICP signal conditioner

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Silent features	each unit shall contain three/four channel PE/IEPE signal conditioner (for 3 channel per unit total units 8 / for 4 channels per unit total units 06),built in 4 pole butter worth high pass filter, input /ouput for charge and ICP type accelerators both	-		
2	Piezoelectric / charge (Input channel specification)	Single-ended with one side connected to signal ground, Maximum charge input capability : 10,000 pC Source resistance: > 10 M Source capacitance: < 30,000 pF	-		

3	IEPE or ICP (Input channel specification)	<p>Single-ended with low side connected to signal ground, Excitation current accuracy:4 mA or 10 mA \pm 15%, one range shall be valid for all 3 channels and selectable through front panel .</p> <p>Compliance voltage: < 22 VDC</p> <p>Maximum input voltage:< 22 Volts (AC+ DC)</p> <p>Input impedance-100 MOhms and 33 000 pF Output characteristics or better</p>	-		
4	outputs channel for charge and IEPE	<p>AC voltage single ended with one side connected to output signal ground and Signal proportional to input.</p> <p>Maximum linear output: 10 Vpk</p> <p>Display non-linearity : Inherent error 1% of full scale reading</p> <p>Maximum current output:10 mA (10V into a 1 kOhm load)</p> <p>DC offset: 15 mV maximum or better</p> <p>Protection: Short circuit protected</p>	-		

5	transfer characteristics	<p>Gain range: Programmable from 0 to 1,000 Resolution: 0.0025 Eu 0 gain 10, 0.025 Eu 10 gain 100, 0.25 Eu 100 gain 1000 Accuracy: $\pm 0.5\%$ at 1 kHz Linearity:0.1% of full scale, best fit straight line at 1 kHz reference Piezoelectric noise :0.02 pc-rms plus 0.006 pc-RMS per 1000 pF of source capacitance referred to input (RTI), plus 1mVRMS referred to output (RTO). IEPE:0 μVRMS referred to input (RTI), plus 400 μVRMS referred to output (RTO). Input shunted with 249 Ohm (4 mA excitation) or 100 Ohms (10 mA excitation). Broadband frequency response: $\pm 5\%$, 0.1 Hz to 50 kHz, referenced to 1 kHz</p>	-		
6	Filter characteristics	<p>High pass filter type:4-pole butter worth Corner frequency (-3 dB):10 Hz $\pm 5\%$ or better Low Pass Filter module:4-pole butter worth Corner frequency (-3 dB):10 KHz $\pm 12\%$ or better Crosstalk between channels:80 dB RTI minimum or better</p>	-		
7	Power requirements	<p>Voltage : 220-230 AC, 50 Hz Isolation: No isolation channel to channel or signal ground to case ground</p>	-		

8	physical characteristics	portable and suitable size , light weight	-		
9	others	1. item shall meet the requirement for the signal conditioning of charge and ICP type vibration accelerometers 2. item shall be provides with software interface through PC by RS232 to programme the value of the parameters	-		

[Document : Item Doc piezoelectric charge and ICP signal conditioner_1_specification sheet.pdf](#)

[Document : NARC_approval_for_domestic_PT_two_part](#)

[Document : NARC approval](#)

Supporting Documents required from Vendor

1. specification compliance statement

2. product catalogue/manual

3. warranty certificate

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	minimum one year , standard warranty shall be provided however the warranty more than one year shall be preferred	Yes / No / Explain	
2	Catalogue /manual and interface software to programme the value shall be provided along with the items	Yes / No / Explain	
3	IISU GST No. is: 32AAAGI0068M1ZI. All tax invoice shall invariably bear your GST Registration No. (GSTIN), the HSN code of the particular item and the applicable tax rate. In the absence of which the invoice shall not be processed for payment	Yes / No / Explain	
4	Government of India, Ministry of Finance (Department of Revenue) vide Notification No. 47/2017 Integrated Tax (Rate) dated 14 November 2017 has reduced the rate of IGST to 5% for the procurements made by the Department of Space being a Public Funded Research Institution. Necessary Exemption Certificate will be provided, if required	Yes / No / Explain	
5	Delivery period	Yes / No / Explain	
6	Delivery Terms:- FOR IISU. In case of Ex-Works, please indicate packing, forwarding & freight charges up to IISU , separately	Yes / No / Explain	
7	Payment terms:- 100% within 30 days on receipt and acceptance of item at our site.	Yes / No / Explain	
8	Warranty:- Minimum One year and warranty certificate required.	Yes / No / Explain	
9	Performance Bank Guarantee @3% or applicable rate of order value is applicable for one year.	Yes / No / Explain	
10	Foreign vendors are not permitted to quote. Only class I & II local suppliers as per Make in India policy are eligible to participate in the bid. The percentage of local content should specifically mentioned in the offer, without which it will be summarily rejected.	Yes / No / Explain	

11	Preference will be given to class I local supplier and in their absence class II local supplier will be considered.	Yes / No / Explain	
12	Liquidated Damages(L/D clause @ 0.5% subject to maximum 10% of the order value is applicable beyond the promised delivery schedule.)	Yes / No / Explain	
13	Security Deposit: In the event of placement of order (above 5.0L), you should submit Security Deposit at 3%(or applicable rate) of the order value of the P.O. The Security Deposit shall valid for a period of 60 days beyond the date of completion and acceptance of P.O/Contract. The Security Deposit will be discharged without any interest after completion and acceptance of the Contractual obligations.	Yes / No / Explain	
14	Please attach relevant documents & catalogues clearly mentioning make, model etc of the item in pdf format.	Yes / No / Explain	
15	This is a Two part tender. Techno commercial bid and price bid shall not be submitted together. No price details should be mentioned in the Techno-commercial bid.	Yes / No / Explain	
16	Quotation validity:- Minimum 90 days	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	piezoelectric charge and ICP signal conditioner	8.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
P&F Charges	