

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

**Tender for Manufacture and Supply of Ti6Al4V samples through LPBF**

**Bids to be submitted online**

**Tender No.: VSSC/PURCHASE UNIT V (MME PURCHASE)/VS202300076401 dated  
09-03-2023**

## A. Tender Details

Tender No :	<b>VSSC/PURCHASE UNIT V (MME PURCHASE)/VS202300076401</b>
Tender Date :	<b>09-03-2023</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>PURCHASE UNIT V (MME PURCHASE)</b>
Centre :	<b>VIKRAM SARABHAI SPACE CENTRE (VSSC)</b>

## Manufacture and Supply of Ti6Al4V samples through LPBF

- 1.GST No: Our Goods and Service Tax Registration No 32AAAGV0026J1ZL.
- 2.GSTIN Rate and HSN Code: Vendors registered under GST shall mention their GSTIN applicable rate and HSN code wherever necessary as per GST Law.
- 3.Delivery of the item should be made as per commercial terms attached in the tender.
- 4.Wherever supply, installation, commissioning & training is involved, the bidders shall clearly specify the delivery period for supply of items, time required for installation & commissioning etc.
- 5.Security Deposit (SD): SD will be applicable if the Purchase Order value is above Rs 5 lakhs. SD at the rate of 3 per cent of order value to be submitted in the form of Bank Guarantee valid till successful completion of PO or Contract if awarded.
- 6.Liquidated Damages Clause (LD): The delivery period should be realistic. The delivery period so quoted and mentioned in the order is the essence of the PO or Contract. In case of delay in delivery of material as per the delivery schedule LD at 0.5 per cent per week or part thereof on the undelivered portion subject to a maximum of 10 per cent of the contract value shall be levied Wherever installation and commissioning are also involved the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted
- 7.LD, SD clauses are mandatory and offer without acceptance of these clauses will not be considered for evaluation
- 8.Delivery terms: Our standard delivery term is FOR VSSC Trivandrum. In case any vendors offer delivery term of Ex-Works, Packing and Forwarding charges, if any, should be indicated separately either as a percentage of the quoted rate or as a lumpsum amount.
- 9.Payment Terms: Our standard payment term is 100 per cent within 30 days of receipt and acceptance of Stores at our site for indigenous orders and Sight Draft or Wire Transfer or Irrevocable LC (without confirmation) for foreign orders. The Bank charges shall be to respective Accounts.
- 10.All registered MSME vendors are requested to provide their Registration and Ownership details.
- 11.Vendors may please note that MSMEs are not exempted from the submission of Security Deposit.
- 12.Vendors shall provide the name address email ID and contact number of authorised official in order

to contact in case of need.

13.If any vendor submits forged or false documents along with their bids, the offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.

14.Tenders are not transferable and in case any vendor is not interested or able to submit their tenders such vendors may send their regret letter.

15.Wherein PFMS Number is not available, please provide IFSC Code Bank Details etc and upload Copy of Personalized cheque leaf in the name of the Purchase Vendor or NEFT Mandate form duly endorsed by the Bank of the Vendor.

16.Copy of latest filed tax returns

17.Details of registration Number, PAN Card, GST, TIN, NSIC, MSME registration etc.

18.The address of registered site works / workshop / etc.

19.Last minute clarification on tender will not be entertained.

20.PO will be placed on technically and commercially suitable lowest offer basis.

21.VSSC has the right to cancel the tender without assigning any reason thereof.

22.Our Bankers: State Bank of India, Thumba Branch, ISRO PO, Trivandrum 695022.

23.Consignee address: Senior Purchase and Stores Officer, Central Stores, RFF, VSSC, ISRO PO, Trivandrum.

24.Taxes and other costs : We are partially exempted from payment of IGST and eligible for paying IGST at 5per cent "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 ĀçĀĀ Central Tax (Rate) dated 31-12-2018 and corresponding SGST Rate Notifications, GST rate for the goods at Sl. No. 243 B: ĀçĀĀScientific 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 PayloadsĀçĀĀ 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 ĀçĀĀ IGST dated 25-01-2018 and Notification No. 25/2018 ĀçĀĀ IGST dated 31-12-2018, necessary IGST/CGST/SGST concession certificate shall be issued".

## **A.1 Tender Schedule**

Bid Submission Start Date : **09-03-2023 16:00**

Bid Clarification Due Date : **05-04-2023 12:00**

Bid Submission Due Date : **13-04-2023 14:00**

Bid Opening Date : **13-04-2023 14:05**

## B. Tender Attachments

### Technical Write-up/Drawings

Document : Sample Drawings

### Instructions To Vendors

#### **2. 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. <br>  
(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. <br>  
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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. i. Model Certificate for Tenders (For Transitional Cases)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered.

### ii. Model Certificate for Tenders

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

### iii. Model Certificates for Tenders for Work involving possibility of sub-contracting

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contracting from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contract from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

## **4. 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.



## C. Bid Templates

### C.1 Technical Bid - Manufacture and Supply of Ti6Al4V samples through LPBF

#### 1. 3D Printing / Additive Manufacturing (Metals , Polymers etc.)Ti6Al4V sample set ( 6 Nos. of plates, 24 Nos. of hollow cylinders & 2 Nos. hemispherical dome)

#### Item specifications for 3D Printing / Additive Manufacturing (Metals , Polymers etc.)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Standard	ASTM	Yes / No / Explain		

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

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of supply	The following items to be manufactured by LPBF technique and delivered : 1.) 24 Nos. of Ti6Al4V Hollow Cylinders (6 types of hollow cylinder 4 Nos. each) 2.) 2 Nos. of Ti6Al4V Domes (1 type of concave upward dome 2 Nos.) 3.) 6 Nos. of Ti6Al4V Wall Structures(6 types of plates 1 No. each)	Yes / No / Explain		
2	Raw material	Source of powder has to be India/ US/ Europe only. the powder should have clear traceability to the mill.	Yes / No / Explain		
3	3D printing parameters	Actual Parameters used for 3D printing of coupons has to be submitted to VSSC before printing.	Yes / No / Explain		
4	Delivery Period	Delivery of components has to be completed within 30 days of placement of PO.	Yes / No / Explain		

#### Supporting Documents required from Vendor

**1. Certificate of compliance to VSSC purchase terms**

**2. Local Content Certificate**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	as printed shot blasted condition	Yes / No / Explain	
2	Taxes and other costs, if any . GST : (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 concession certificate shall be issued)	Yes / No / Explain	
3	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 Indenity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
4	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	
5	Delivery Terms: FOR VSSC	Yes / No / Explain	
6	Delivery Period: Within 30 days from the placement of PO.	Yes / No / Explain	

7	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
8	Quote Validity: Minimum 90 days from the date of opening of tender.	Yes / No / Explain	
9	PO Ordering Address with Name and Contact Details of Sales Person concerned (e-mail and phone number).	Yes / No / Explain	
10	Any Other Terms	Yes / No / Explain	
11	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 eprocurement portal with clear reasons or email to spso_mme_pur@vssc.gov.in. Non-submission of bids without regrets will be viewed seriously	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	3D Printing / Additive Manufacturing (Metals , Polymers etc.)Ti6Al4V sample set ( 6 Nos. of plates, 24 Nos. of hollow cylinders & 2 Nos. hemispherical dome)	1.00 Nos.		-		

### Common charges (Applicable for all items)

<b>Freight charge</b>	
<b>P&amp;F Charges</b>	