

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

Tender for CP Titanium Sheets and Tubes

Bids to be submitted online

**Tender No.: VSSC/PURCHASE UNIT V (MME PURCHASE)/VS202100308401 dated
15-09-2021**

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT V (MME PURCHASE)/VS202100308401**

Tender Date : **15-09-2021**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT V (MME PURCHASE)**

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

Procurement of CP Titanium Sheets and Tubes

This Tender is for the procurement of CP Titanium Sheets and Tubes

1.This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote.

2.Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

3.Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate break-up of components of main equipment, individual accessories and spares as desired.

4.This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.

5.Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

6.The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

7.In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

8.False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General

Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

9. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

10. For submission of tenders only through online mode, the prospective bidders who have not registered with our e-procurement system have to register themselves first with VSSC / DOS / ISRO e-procurement portal. The details are available in our website : eproc.vssc.gov.in under new Vendor Registration. For this, Vendors have to submit their credentials for our verification and approval. Unless this stage is completed and approved by VSSC, bidders will not be able to participate in the PT bid.

A.1 Tender Schedule

Bid Submission Start Date : **15-09-2021 11:00**

Bid Clarification Due Date : **04-10-2021 10:00**

Bid Submission Due Date : **07-10-2021 14:00**

Bid Opening Date : **07-10-2021 15:00**

Price Bid Opening Date : **14-10-2021 14:00**

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

2. 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.

3. 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.

4. 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.

5. 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.

6. TERMS & CONDITIONS OF TENDER

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

documents.

8. 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.

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

10. 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.

11. (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.

12. 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.

13. 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.

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

15. (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.

16. 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.

17. 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.

18. 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.

19. 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)

20. 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.

21. 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.

22. 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.

23. 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.

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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
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. 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.
8. 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 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.

9. 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.

10. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).

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

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

13. '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.

14. 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.

15. a) The subject item falls under divisible category. b) The offers are sought from Class I & II Local Suppliers.

16. 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:-

C. Bid Templates

C.1 Technical Bid - CP Titanium Sheets and Tubes

1. TITANIUM alloy Grade-2 (Commercially pure) sheets of size: 1100 x 600 x 2 mm thickness

Item specifications for TITANIUM

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--------------------|--|--------------------|-----------------------|--------|
| 1 | Scope of Supply | VSSC shall not supply any raw materials required for the supply of CP-Ti sheets conforming to AMS 4902 being ordered. The Titanium alloy CP-Ti Grade 2 sheets shall be processed as per the melting practice specified in Clause 3.2 of AMS 4902. Titanium alloy CP-Ti Grade 2 sheets shall meet the requirements of Chemical composition in Table.1, Mechanical properties as per Table .2., Heat treatment as per Clause 3.4 , Bend test requirements in 3.5.2 and Microstructure specified in 3.5.3. of AMS 4902. | Yes / No / Explain | | |
| 2 | Source of material | The items should be manufactured in India only | Yes / No / Explain | | |

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|---|-----------------------|---|--------------------|--|--|
| 3 | QAP | <p>The party shall prepare process layout and also submit a quality assurance plan, indicating critical processing and QC check points, test specimen layout, test plan etc to VSSC for approval before manufacture. QC Personnel of VSSC shall witness identified stages of processing & testing as per mutually agreed process/QC Plan. VSSC QC personnel shall duly sign the test certificates and release note shall be duly signed by Resident Manager</p> | Yes / No / Explain | | |
| 4 | Dye Penetrant testing | <p>The party shall carryout DPT upto 50 mm from the edges of the sheets as per ASTM E165 in the presence of VSSC Personnel. This is an additional requirement although not covered in AMS 4902. Charges for this shall also be borne by the party and shall be included in the quotation offered by the party.</p> | Yes / No / Explain | | |
| 5 | Mill TC | <p>If ready stock is available, the party shall forward a copy of mill TC pertaining to the same along with the quotation.</p> | Yes / No / Explain | | |

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|---|-----------------|--|--------------------|--|--|
| 6 | Certificates | Three copies of the following certificates shall be provided a. Chemical analysis of heat b. Photomicrograph representative of each batch/lot of the sheets. c. Chemical test report at product stage d. Heat treatment details e. Dye Penetrant Test reports f. Mechanical Property test reports g. Dimensional and visual inspection report | Yes / No / Explain | | |
| 7 | Dispatch | Dispatch of items shall be done only after obtaining pre-dispatch clearance from VSSC. | Yes / No / Explain | | |
| 8 | Delivery period | Delivery has to be completed within 4 months of placement of P.O. | Yes / No / Explain | | |

2. Titanium (Ti) alloy Grade-2 (Commercially pure) seamless tubes in cold drawn, annealed, pickled and passivated condition of size: OD 25.4 x 1.6 mm wall thickness - 1200 mm L

Item specifications for Titanium (Ti)

| Sl No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------|-------|------------|-----------------------|--------|
|-------|---------------|-------|------------|-----------------------|--------|

| | | | | | |
|---|----------------------------|---|--------------------|--|--|
| 1 | Scope of supply | <p>VSSC shall not supply any raw materials required for the supply of CP-Ti tubes.</p> <p>Tubes shall be supplied in Seamless, cold drawn, annealed, pickled and passivated condition. The tubes shall meet the chemical composition, tensile properties, flattening, flarability and hydrostatic and /or eddy current testing specified in ASTM B338 / AMS 4942.</p> <p>The tubes shall meet the requirements specified in whichever standard the tubes are being supplied i.e. ASTM B338/ AMS 4942 as applicable.</p> <p>Finished tubes shall be straight and have smooth ends free of burrs. Maximum out of straightness allowed shall be 1mm / mtr length of tubes.</p> <p>Any kind of repair by welding is not permissible on the tubes.</p> | Yes / No / Explain | | |
| 2 | Source of material | The items have to be manufactured in India only | Yes / No / Explain | | |
| 3 | Testing | All tubes shall be subjected to hydrostatic testing and/ or eddy current testing and shall meet the acceptance criteria specified in ASTM B338 / AMS 4942 as applicable | Yes / No / Explain | | |
| 4 | Flattening and Flarability | Flattening and Flarability shall be demonstrated on 1 No./ Size/Batch/Heat. | Yes / No / Explain | | |
| 5 | Quantity Tolerance | Quantity tolerance of $\pm 10\%$ is acceptable. | Yes / No / Explain | | |

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|----|---------------------|--|--------------------|--|--|
| 6 | Mill TC | If ready stock is available, the party shall forward a copy of mill TC pertaining to the same along with the quotation. | Yes / No / Explain | | |
| 7 | Scrutiny of reports | Mill certificates & other inspection reports shall be forwarded to the department for scrutiny before dispatch of materials. | Yes / No / Explain | | |
| 8 | Certificates | Three copies of the following certificates shall be provided a. Chemical analysis of heat b. Chemical test report at product stage c. Mechanical Property test reports d. Dimensional and visual inspection report e. Flattening and Flarability test reports/ photographs f. hydrostatic testing report and g. eddy current testing report | Yes / No / Explain | | |
| 9 | Dispatch | Dispatch of items shall be done only after obtaining pre-dispatch clearance from VSSC. | Yes / No / Explain | | |
| 10 | Delivery period | Delivery has to be completed within 4 months of placement of P.O. | Yes / No / Explain | | |

3. Titanium (Ti) alloy Grade-2 (Commercially pure) seamless tubes in cold drawn, annealed, pickled and passivated condition of size: OD 12.7 x 0.9 mm wall thickness - 1500 mm L

Item specifications for Titanium (Ti)

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------|-------|------------|-----------------------|--------|
|-------|---------------|-------|------------|-----------------------|--------|

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|---|----------------------------|---|--------------------|--|--|
| 1 | Scope of supply | <p>VSSC shall not supply any raw materials required for the supply of CP-Ti tubes. Tubes shall be supplied in Seamless, cold drawn, annealed, pickled and passivated condition. The tubes shall meet the chemical composition, tensile properties, flattening, flarability and hydrostatic and /or eddy current testing specified in ASTM B338 / AMS 4942. The tubes shall meet the requirements specified in whichever standard the tubes are being supplied i.e. ASTM B338/ AMS 4942 as applicable. Finished tubes shall be straight and have smooth ends free of burrs. Maximum out of straightness allowed shall be 1mm / mtr length of tubes. Any kind of repair by welding is not permissible on the tubes.</p> | Yes / No / Explain | | |
| 2 | Source of material | The items have to be manufactured in India only | Yes / No / Explain | | |
| 3 | Testing | All tubes shall be subjected to hydrostatic testing and/ or eddy current testing and shall meet the acceptance criteria specified in ASTM B338 / AMS 4942 as applicable | Yes / No / Explain | | |
| 4 | Flattening and Flarability | Flattening and Flarability shall be demonstrated on 1 No./ Size/Batch/Heat. | Yes / No / Explain | | |
| 5 | Quantity Tolerance | Quantity tolerance of $\pm 10\%$ is acceptable. | Yes / No / Explain | | |

| | | | | | |
|----|---------------------|--|--------------------|--|--|
| 6 | Mill TC | If ready stock is available, the party shall forward a copy of mill TC pertaining to the same along with the quotation. | Yes / No / Explain | | |
| 7 | Scrutiny of reports | Mill certificates & other inspection reports shall be forwarded to the department for scrutiny before dispatch of materials. | Yes / No / Explain | | |
| 8 | Certificates | Three copies of the following certificates shall be provided a. Chemical analysis of heat b. Chemical test report at product stage c. Mechanical Property test reports d. Dimensional and visual inspection report e. Flattening and Flarability test reports/ photographs f. hydrostatic testing report and g. eddy current testing report | Yes / No / Explain | | |
| 9 | Dispatch | Dispatch of items shall be done only after obtaining pre-dispatch clearance from VSSC. | Yes / No / Explain | | |
| 10 | Delivery period | Delivery has to be completed within 4 months of placement of P.O. | Yes / No / Explain | | |

Common Specifications (Applicable for all items)

| Sl No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|-------------------------------|--------------------|-----------------------|--------|
| 1 | For Commercially pure (CP) Ti alloy sheets | AMS 4902 | Yes / No / Explain | | |
| 2 | For Commercially pure (CP) Ti alloy tubes | ASTM B338 Grade-2 or AMS 4942 | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. Compliance to specified terms and AMS 4902 in case of CP Titanium sheets

2. Compliance to specified terms and ASTM B338/AMS 4942 in case of CP Titanium seamless tubes

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | Cold rolled, annealed and pickled/polished condition for CP-Ti Sheets | Yes / No / Explain | |
| 2 | Cold drawn, annealed, pickled and passivated for CP Titanium seamless tubes | Yes / No / Explain | |
| 3 | 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 | |
| 4 | Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a)Equal to or 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 | |
| 5 | 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 | |
| 6 | 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. 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 | |

| | | | |
|----|--|--------------------|--|
| 7 | PO Ordering Address with Name and Contact Details of Sales Person concerned (e-mail and phone number). | Yes / No / Explain | |
| 8 | Any Other Terms | Yes / No / Explain | |
| 9 | Taxes and other costs, if any . [Note: VSSC is a Public Funded Research Institution under the administrative control of Department of Space and is eligible for partial exemption of IGST @5% vide Notfn No. 45/2017, 47/2017 dt 14.11.2017 respectively. Necessary IGST EXEMPTION CERTIFICATE shall be issued.] | Yes / No / Explain | |
| 10 | 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). | Yes / No / Explain | |
| 11 | Delivery Terms: FOR VSSC. | Yes / No / Explain | |
| 12 | Delivery Period: Within 4 months of placement of P.O. | Yes / No / Explain | |
| 13 | 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 | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|--|------------|------------|----------|-------------|--------|
| 1 | TITANIUM alloy Grade-2 (Commercially pure) sheets of size: 1100 x 600 x 2 mm thickness | 50.00 Nos. | | - | | |

| | | | | | | |
|---|---|-------------|--|--|--|--|
| 2 | Titanium (Ti) alloy Grade-2 (Commercially pure) seamless tubes in cold drawn, annealed, pickled and passivated condition of size: OD 25.4 x 1.6 mm wall thickness - 1200 mm L | 110.00 Nos. | | | | |
| 3 | Titanium (Ti) alloy Grade-2 (Commercially pure) seamless tubes in cold drawn, annealed, pickled and passivated condition of size: OD 12.7 x 0.9 mm wall thickness - 1500 mm L | 110.00 Nos. | | | | |

Common charges (Applicable for all items)

| | |
|------------------------|--|
| Freight charge | |
| P&F Charges | |