

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

Tender for Triple Roll Mill -50 Kg 25kg 15 kg

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202100334501 dated 08-09-2021

A. Tender Details

| | |
|------------------------|---|
| Tender No : | VSSC/PURCHASE UNIT III (SPRE)/VS202100334501 |
| Tender Date : | 08-09-2021 |
| Tender Classification: | GOODS |
| Purchase Entity : | PURCHASE UNIT III (SPRE) |
| Centre : | VIKRAM SARABHAI SPACE CENTRE (VSSC) |

Procurement of Triple Roll Mill -50 Kg 25kg 15 kg

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.

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.

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.

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.

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

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.

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.

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. 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.

A.1 Tender Schedule

| | |
|------------------------------|-------------------------|
| Bid Submission Start Date : | 09-09-2021 09:00 |
| Bid Clarification Due Date : | 30-09-2021 17:00 |
| Bid Submission Due Date : | 07-10-2021 14:00 |
| Bid Opening Date : | 07-10-2021 14:01 |
| Price Bid Opening Date : | 14-10-2021 14:00 |

B. Tender Attachments

NA

Instructions To Vendors

1. Instructions to Vendors

1. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
2. Last minute clarification on tenders will not be entertained.
2. 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.
3. 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.
4. 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.
5. 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.
6. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.
7. 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.
8. 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.

9. 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.

10. 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.

C. Bid Templates

C.1 Technical Bid - Triple Roll Mill -50 Kg 25kg 15 kg

1. THREE ROLL MILL- 15 KG/H Capacity

Item specifications for THREE ROLL MILL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-----------------------------------|---|--------------------|-----------------------|--------|
| 1 | Rollers material of construction | Carbon chrome precision steel (52100 or EN-9 type).Certificate to be Provided.(Tripple roll mill grade) | Yes / No / Explain | | |
| 2 | Individual roller size and finish | 3-6"(Dia) x 12-16"(length) (in inches).Should be of Mirror Finish | Yes / No / Explain | | |
| 3 | Ratio of RPM of rollers | Should be in the ratio of 1:3:9 | Yes / No / Explain | | |
| 4 | Roller Speed | Should be capable of RPM of 0 to 320. A variable speed control system (VFD) for adjusting roller speed should be provided. Coding to identify Speed of Rollers to be provided(Digital Mode) | Yes / No / Explain | | |
| 5 | Roller hardness | Minimum of 450 Bhn with good Abrasion Resistance. | Yes / No / Explain | | |
| 6 | Rollers support | Should be self-aligned spherical roller bearings | Yes / No / Explain | | |
| 7 | Rollers Integrity | No fine particles should develop from rollers. Unit should not vibrate from operation | Yes / No / Explain | | |
| 8 | The gap between the rollers | 0 -5 mm, should be possible to adjust manually with hand wheel | Yes / No / Explain | | |

| | | | | | |
|----|--|--|--------------------|--|--|
| 9 | Water cooling/heating arrangement | The rollers shall be provided with hollow inside for water cooling/heating (15 mm hollow roll) | Yes / No / Explain | | |
| 10 | Motor capacity | 2 HP or more | Yes / No / Explain | | |
| 11 | Motor Drive | Through Sully guarded pulley belt(noiseless gear train) | Yes / No / Explain | | |
| 12 | Motor Options | Explosion Proof and variable speed motors | Yes / No / Explain | | |
| 13 | Shaft of Mill | High Tensile Strength Alloy Steel Fitted inside rollers. | Yes / No / Explain | | |
| 14 | Control Panel | Front panel should include start, stop and speed control switches | Yes / No / Explain | | |
| 15 | Immediate and safe stopping | Electronic braking system should be provided | Yes / No / Explain | | |
| 16 | Reversal of rotation of mill | Should be provided | Yes / No / Explain | | |
| 17 | Total height of the unit | Should be between 0.9 to 1.2 metre | Yes / No / Explain | | |
| 18 | Unit's integral base | Should be a free standing type for mounting the unit directly on the floor | Yes / No / Explain | | |
| 19 | Frame of the unit | Should be made of mild steel coated with corrosion resistant paint | Yes / No / Explain | | |
| 20 | Lubrication Points | Should be provided for each bearing and gear | Yes / No / Explain | | |
| 21 | Accessories- Scrapper Tray and Drip tray | Scrapper Tray and Drip tray should be supplied in SS 304.(one Extra set of spare to be Provided) | Yes / No / Explain | | |
| 22 | Accessories- Hopper cheeks | PTFE hopper cheeks should be supplied. (3 Sets of Extra spares to be provided) | Yes / No / Explain | | |

Document : Committee Approved Specification Doc

2. THREE ROLL MILL-25 KG/H Capacity

Item specifications for THREE ROLL MILL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-----------------------------------|---|--------------------|-----------------------|--------|
| 1 | Rollers material of construction | Carbon chrome precision steel (52100 or EN-9 type).Certificate to be Provided.(Tripple roll mill grade) | Yes / No / Explain | | |
| 2 | Individual roller size and finish | 6-8"(Dia) x 18-21"(length) (in inches). Should be of Mirror Finish | Yes / No / Explain | | |
| 3 | Ratio of RPM of rollers | Should be in the ratio of 1:3:9 | Yes / No / Explain | | |
| 4 | Roller Speed | Should be capable of RPM of 0 to 320. A variable speed control system (VFD) for adjusting roller speed should be provided. Coding to identify Speed of Rollers to be provided(Digital Mode) | Yes / No / Explain | | |
| 5 | Roller hardness | Minimum of 450 Bhn with good Abrasion Resistance. | Yes / No / Explain | | |
| 6 | Rollers support | Should be self-aligned spherical roller bearings | Yes / No / Explain | | |
| 7 | Rollers Integrity | No fine particles should develop from rollers. Unit should not vibrate from operation | Yes / No / Explain | | |
| 8 | The gap between the rollers | 0 -5 mm, should be possible to adjust manually with hand wheel | Yes / No / Explain | | |
| 9 | Water cooling/heating arrangement | The rollers shall be provided with hollow inside for water cooling/heating (15 mm hollow roll) | Yes / No / Explain | | |
| 10 | Motor capacity | 2 HP or more | Yes / No / Explain | | |
| 11 | Motor Drive | Through Sully guarded pulley belt(noiseless gear train) | Yes / No / Explain | | |

| | | | | | |
|----|--|--|--------------------|--|--|
| 12 | Motor Options | Explosion Proof and variable speed motors | Yes / No / Explain | | |
| 13 | Shaft of Mill | High Tensile Strength Alloy Steel Fitted inside rollers | Yes / No / Explain | | |
| 14 | Control Panel | Front panel should include start, stop and speed control switches | Yes / No / Explain | | |
| 15 | Immediate and safe stopping | Electronic braking system should be provided | Yes / No / Explain | | |
| 16 | Reversal of rotation of mill | Should be provided | Yes / No / Explain | | |
| 17 | Total height of the unit | Should be between 0.9 to 1.2 metre | Yes / No / Explain | | |
| 18 | Unit's integral base | Should be a free standing type for mounting the unit directly on the floor | Yes / No / Explain | | |
| 19 | Frame of the unit | Should be made of mild steel coated with corrosion resistant paint | Yes / No / Explain | | |
| 20 | Lubrication Points | Should be provided for each bearing and gear | Yes / No / Explain | | |
| 21 | Accessories- Scrapper Tray and Drip tray | Scrapper Tray and Drip tray should be supplied in SS 304.(one Extra set of spare to be Provided) | Yes / No / Explain | | |
| 22 | Accessories- Hopper cheeks | PTFE hopper cheeks should be supplied. (3 Sets of Extra spares to be provided) | Yes / No / Explain | | |

Document : Committee Approved Specification Doc

3. THREE ROLL MILL-50 KG/H Capacity

Item specifications for THREE ROLL MILL

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

| | | | | | |
|----|-----------------------------------|---|--------------------|--|--|
| 1 | Rollers material of construction | Carbon chrome precision steel (52100 or EN-9 type).Certificate to be Provided.(Tripple roll mill grade) | Yes / No / Explain | | |
| 2 | Individual roller size and finish | 8-10"(Dia) x 22-24"(length) (in inches). Should be of Mirror Finish | Yes / No / Explain | | |
| 3 | Ratio of RPM of rollers | Should be in the ratio of 1:3:9 | Yes / No / Explain | | |
| 4 | Roller Speed | Should be capable of RPM of 0 to 320. A variable speed control system (VFD) for adjusting roller speed should be provided. Coding to identify Speed of Rollers to be provided(Digital Mode) | Yes / No / Explain | | |
| 5 | Roller hardness | Minimum of 450 Bhn with good Abrasion Resistance. | Yes / No / Explain | | |
| 6 | Rollers support | Should be self-aligned spherical roller bearings | Yes / No / Explain | | |
| 7 | Rollers Integrity | No fine particles should develop from rollers. Unit should not vibrate from operation | Yes / No / Explain | | |
| 8 | The gap between the rollers | 0 -5 mm, should be possible to adjust manually with hand wheel | Yes / No / Explain | | |
| 9 | Water cooling/heating arrangement | The rollers shall be provided with hollow inside for water cooling/heating (15 mm hollow roll) | Yes / No / Explain | | |
| 10 | Motor capacity | 2 HP or more | Yes / No / Explain | | |
| 11 | Motor Drive | Through Sully guarded pulley belt(noiseless gear train) | Yes / No / Explain | | |
| 12 | Motor Options | Explosion Proof and variable speed motors | Yes / No / Explain | | |
| 13 | Shaft of Mill | High Tensile Strength Alloy Steel Fitted inside rollers | Yes / No / Explain | | |

| | | | | | |
|----|--|--|--------------------|--|--|
| 14 | Control Panel | Front panel should include start, stop and speed control switches | Yes / No / Explain | | |
| 15 | Immediate and safe stopping | Electronic braking system should be provided | Yes / No / Explain | | |
| 16 | Reversal of rotation of mill | Should be provided | Yes / No / Explain | | |
| 17 | Total height of the unit | Should be between 0.9 to 1.2 metre | Yes / No / Explain | | |
| 18 | Unit's integral base | Should be a free standing type for mounting the unit directly on the floor | Yes / No / Explain | | |
| 19 | Frame of the unit | Should be made of mild steel coated with corrosion resistant paint | Yes / No / Explain | | |
| 20 | Lubrication Points | Should be provided for each bearing and gear | Yes / No / Explain | | |
| 21 | Accessories- Scrapper Tray and Drip tray | Scrapper Tray and Drip tray should be supplied in SS 304.(one Extra set of spare to be provided) | Yes / No / Explain | | |
| 22 | Accessories- Hopper cheeks | PTFE hopper cheeks should be supplied. (3 Sets of Extra spares to be provided) | Yes / No / Explain | | |

Document : Committee Approved Specification Document

Common Specifications (Applicable for all items)

| Sl No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------------------|---|--------------------|-----------------------|--------|
| 1 | Guarentee/Warranty | Free repair/replacement for 24 months from date of installation, commissioning and acceptance by VSSC | Yes / No / Explain | | |
| 2 | AMC | 3 year AMC from 3rd year onwards to be provided. AMC cost to be included in the Quotation. | Yes / No / Explain | | |
| 3 | Commissioning and Demonstration | To be done on site free of cost | Yes / No / Explain | | |

| | | | | | |
|---|-------------------------|---|--------------------|--|--|
| 4 | Essential Spares | List of Essential Spares to be Provided. Party should supply spares against requirement. | Yes / No / Explain | | |
| 5 | Pre-delivery Inspection | To be arranged | Yes / No / Explain | | |
| 6 | Certifications | Full certifications (including ISO, Calibration and Tracability for standards used in calibration) to be provided | Yes / No / Explain | | |
| 7 | Other Information | Name and Contact details of recent users of instrument to be provided | Yes / No / Explain | | |
| 8 | Other Information-2 | All subsystems accessories and optional accessories mentioned in specification to be quoted separately | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. P&ID of the process system (All the sub systems shall be clearly identified, and labels /tags shall be provided). P&ID should include each and every part of the system, without fail.
2. General arrangement and dimensional drawings
3. Test and final inspection reports.
4. Detailed parts list and bill of materials.
5. Manual and warranty certificates for all the equipments such as motors, VFD, mechanical seal system, controllers, indicators and process set up.
6. Brochures/Catalogues of company with details
7. Unpriced Bid showing the split up of main equipment, accessories, essential spares as applicable
8. Detailed Techno commercial offer(without price details)
9. Unpriced AMC Quote in Split-up format for each year required.

10. Unpriced list of essential/ optional spares for 3 years maintenance.

11. Declaration regarding the percentage of local content (or value addition) in the item offered.

12. Detailed Compliance Matrix vis-a-vis the item specification in tenders.

13. Additional Documents from Vendor.

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | Specified in the document attached | Yes / No / Explain | |
| 2 | Party should deliver unit at VSSC within 3-4 months from date of Purchase order | Yes / No / Explain | |
| 3 | 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 | |
| 4 | PO Ordering Address with Name and Contact Details of Sales Person concerned (e-mail and phone number). | Yes / No / Explain | |
| 5 | Any Other Terms | Yes / No / Explain | |
| 6 | 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 | |
| 7 | 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 | |
| 8 | Delivery Terms. | Yes / No / Explain | |

| | | | |
|----|--|--------------------|--|
| 9 | Delivery Period | Yes / No / Explain | |
| 10 | 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 | |
| 11 | Warranty | Yes / No / Explain | |
| 12 | Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited). | Yes / No / Explain | |
| 13 | Payment Term: (Our Defalut payment term: For indigenou orders: 100% within 30 days after receipt and acceptance of item at our site. For import cases: 100% by Sight Draft with Bank Charges to respective accounts. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER). | Yes / No / Explain | |
| 14 | 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 | |

| | | | |
|----|---|--------------------|--|
| 15 | 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 | |
| 16 | Acceptance to provide Non-Comprehensive AMC for a period of 3 years after the completion of warranty period. AMC cost shall only be mentioned in the specific slot in price bid. | Yes / No / Explain | |
| 17 | List of essential spares for the trouble free operation of the equipment to be uploaded (without price details). Details of optional spares may also be provided (without price details). | Yes / No / Explain | |
| 18 | Kindly ensure that NO DOCUMENTS WITH PRICE DETAILS ARE UPLOADED. Price shall only be mentioned in the price bid. Uploaded documents with price details shall summarily be rejected. | Yes / No / Explain | |
| 19 | Ensure you are a Class-I Local Supplier/ Class-II Local Supplier. The offer shall be in INR only. Bids from foreign OEMs and offer on High Sea Sales basis are not allowed. Please mention the category of the bidder. | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|-----------------------------------|-----------|------------|----------|-------------|--------|
| 1 | THREE ROLL MILL- 15 KG/H Capacity | 1.00 Nos. | | - | | |
| 2 | THREE ROLL MILL- 25 KG/H Capacity | 1.00 Nos. | | - | | |
| 3 | THREE ROLL MILL- 50 KG/H Capacity | 1.00 Nos. | | - | | |

Common charges (Applicable for all items)

| | |
|---|--|
| Annual Maintenance Contract Charges | |
| Optional Spares Cost (lumpsum) | |
| Any Other Charges | |
| Essential Spares Cost (lumpsum) | |
| Packing and Forwarding Charges | |
| Freight charge | |
| Installation & Commissioning Charges | |