

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

Tender for Multi unit automatic rubber hardness tester with multi indentors

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400625901 dated 10-12-2024

A. Tender Details

| | |
|------------------------|---|
| Tender No : | VSSC/PURCHASE UNIT III (SPRE)/VS202400625901 |
| Tender Date : | 10-12-2024 |
| Tender Classification: | GOODS |
| Purchase Entity : | PURCHASE UNIT III (SPRE) |
| Centre : | VIKRAM SARABHAI SPACE CENTRE (VSSC) |

Multi unit automatic rubber hardness tester with multi indentors

PLEASE NOTE: This is a GLOBAL PUBLIC TENDER. All classes of vendors (including Non-Local Suppliers as described in DPIIT order on MII Purchase Preference Policy) can participate in this tender. The currency of the bid can be in INR or in FE. However, Class-I local suppliers can avail purchase preference if their offer falls within the margin of Purchase Preference with respect to the lowest bid.

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 TechnoCommercial 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.

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

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 : | 10-12-2024 12:00 |
| Bid Clarification Due Date : | 16-12-2024 10:00 |

Bid Submission Due Date : **10-01-2025 14:00**

Bid Opening Date : **10-01-2025 14:00**

Price Bid Opening Date : **31-03-2025 14:00**

B. Tender Attachments

Technical Write-up/Drawings

[Document : compliance chart](#)

[Document : specification](#)

Instructions To Vendors

3. Specific Terms and Conditions to Tender (GTE Compliant)

1. (I) Please quote applicable GST separately.
2. (II) Our standard delivery term is FOR, VSSC. In case any vendor offers 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.
3. (III) Our standard payment term is 100% within 30 days after receipt and acceptance of the items at our site (after installation and commissioning in cases where installation and commissioning is required). In case of Foreign quote standard payment term is 100% Sight Draft with bank charges to respective accounts.
4. (IV) Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.
5. (V) Performance Bank Guarantee: Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.
6. (VI) Security Deposit: Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper

and should be valid beyond 2 months from the completion of all contractual obligations. 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 case if Security Deposit is submitted and the contractor fails to execute the order, then the security deposit will be forfeited.

7. (VII) Note: SD, LD and PBG clauses are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.

8. (VIII) Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable)

9. (IX) The offer should be valid for a period of minimum 90 days from the date of opening of Tender and 180 Days for PT Two Part (120 Days for Technical Bid and 60 Days for Price Bid from the date of opening).

10. (X) In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer.

11. (XI) If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.

12. (XII) Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.

13. (XIII) The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the specific terms will prevail over the standard terms.

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

15. (XV-a) This tender is open for all class of suppliers i. e Class I, Class II and non local suppliers as defined in DPIIT order on Make In India initiative dtd 16/09/2020 and its revisions. Purchase preference as per extant guidelines will be applicable for Class I local suppliers.

16. (XV-b) Foreign OEMs/Agents quoting on behalf of Foreign OEMs are permitted to quote. High Sea

Sales Quotes not preferred generally. The bids shall be in INR/appropriate foreign currency.

17. (XVI) 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) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

18. (XVII) 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.

19. (XVIII) 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.

20. (XIX) 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.

21. (XX) 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.

22. (XXI) 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.

23. (XXII) 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.

24. Purchase Preference Policy:- Goods/Works which are not divisible in nature (required quantity is 1 or on 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', then, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price 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 , the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price 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 the contract shall be placed 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.

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.

5. Instructions to Vendors

1. Last minute clarification on tenders will not be entertained.

2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.

6. PPP Make in India(Divisible Items-All Classes of Suppliers)

1. 10. 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. 11. 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.

3. 12. 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. 13. 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. 14. 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.

6. 1. 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) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

7. 2. '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.

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

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

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

11. 6. 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.

12. 7. 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.

13. 8. 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. 9. 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.

15. a) The subject item falls under divisible category. b) The offers are sought from all classes of 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:-

7. Local Content Declaration Format (In your Letter Head)

1. In line with the Government Public Procurement Order No. P/45021/2/2017-BE-II dtd . 15.06.2017 ,

as amended from time to time, and as applicable on the date of submission of tender, we hereby certify that , we M/s. _____ are local supplier meeting the requirement of minimum local content, _____%, as defined above in the orders for the material against Tender Enquiry No. ____ dtd. ____ . The HSN No. of the item supplied is _____

2. Percentage of Local value addition , involved in the item are:

3. This is also certified that the following factors are excluded in the above percentage:
(strike out which are not applicable)

1. imported item sourced locally from resellers/distributors (value in ____% including tax, if applicable)
2. The license fee/royalties paid/technical charges paid out of india. (value in____% including tax, if applicable)
3. Repackaged/refurbished/rebranded imported products (value in ____% including tax, if applicable)

4. The details of location at which the value addition will be made is as follows :

5. We also understand that , false declarations will be in breach of 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 3 years under Rule 151 (iii) of the GFR along with such other actions as may be permissible under law.

6. For (company name)

Authorised Signatory.

C. Bid Templates

C.1 Technical Bid - Multi unit automatic rubber hardness tester with multi indentors

1. Multiunit automatic hardness tester with multi indentors

Item specifications for Multiunit automatic hardness tester with multi indentors

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------|---|--------------------|-----------------------|--------|
| 1 | General Description | Bench top type multiunit automatic hardness tester. Automatic support for the housing of four units fitted with automatic sample lifting system. At a time 4 units (Sh.A, Micro Sh.A, Sh.D, and IRHD) shall be installed and test shall be performed by rotating the support. | Yes / No / Explain | | |
| 2 | Unit control | Automatic hardness units shall be controlled by electronic console and software. | Yes / No / Explain | | |

| | | | | | |
|---|-----------------|---|--------------------|--|--|
| 3 | Control Console | <p>Colour Touch screen display for the control of automatic hardness unit which permits the selection of hardness unit (Type of indenter)., perform automatic multiple test in different point of the same sample, set the number of tests to be performed automatically and the rotation angle between one test and the next one, Set hardness test time, display the test result at the end of the test time, start and stop the automatic execution of the test.</p> | Yes / No / Explain | | |
|---|-----------------|---|--------------------|--|--|

| | | | | | |
|---|---|---|--------------------|--|--|
| 4 | Operating Software in English along with data acquisition system System | <p>System should be loaded with latest licensed full data acquisition software which permits:</p> <ol style="list-style-type: none"> 1. Execution of a customer defined number of tests in different point of the sample with customer defined test time. 2. Analysis of hardness relaxation curve. 3. Statistical analysis of results 4. The software shall be compatible with latest OS. 5. Software shall permit all the activities mentioned in the control console. 6. Compatible latest desktop/ Laptop for fast data acquisition and processing (Make: HCL/Dell/HP) with laser jet printer & latest operating system is also under suppliers scope. <p>8GB RAM minimum, 1TB HDD. Dual LAN card for connecting instrument and other to Local area network</p> | Yes / No / Explain | | |
| 5 | Sample holder with automatic rotation | Sample holder with motor controlled rotation. The device has to be installed on the machine and permits to perform automatic multiple test in different points of the same sample. | Yes / No / Explain | | |

| | | | | | |
|---|--------------------------------|--|--------------------|--|--|
| 6 | Magnifying lens | Magnifying glass with metal frame. Scratchproof and solventresistant lens with magnification of five times. Lens diameter should be minimum 75mm with enlarged magnification area with a diameter of 20mm. | Yes / No / Explain | | |
| 7 | Dimension of the test specimen | The machine shall be capable to hold the specimen of thickness 1.5mm minimum to perform hardness measurement. | Yes / No / Explain | | |
| 8 | Power supply | 230 V +/-10%, 50-60 Hz, single phase | Yes / No / Explain | | |

[Document : document](#)

2. SHORE A MEASURING HEAD and ACCESSORIES

Item specifications for SHORE A MEASURING HEAD and ACCESSORIES

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|--|--------------------|-----------------------|--------|
| 1 | Shore A testing unit conforming to ASTM D2240 standard to be installed on the multi unit tester. | | - | | |
| 2 | General Description | Shore A testing unit conforming to ASTM D2240 standard to be installed on the multi unit tester. | Yes / No / Explain | | |
| 3 | Range | 0 to 100 Sh.A | Yes / No / Explain | | |
| 4 | Resolution | 0.01 Sh.A | Yes / No / Explain | | |
| 5 | Accuracy | ± 1 Sh.A | Yes / No / Explain | | |

| | | | | | |
|---|--------------------------|--|--------------------|--|--|
| 6 | Calibration of equipment | The instrument shall be supplied with calibration certificate conforming to ASTM D2240 with traceability. The certificate includes follows: 1. Calibration of the force applied by the spring vs indentation 2. Calibration of the hardness reading vs indentation 3. Calibration of the test time. | Yes / No / Explain | | |
| 7 | Standard blocks | 5 nos of rubber samples shall be supplied for verification of Shore A tester with standard hardness values of 20-90 Sh.A. The samples should be supplied with 1. Calibration certificate and traceability. 2. Single identification label 3. Wooden protection box | Yes / No / Explain | | |
| 8 | Range of application | Suitable for hardness measuring on flat and curved surfaced specimens with diameter ≥ 35 mm and thickness ≥ 6 mm prescribed under standards. | Yes / No / Explain | | |

[Document : document](#)

3. MICRO SHORE A MEASURING HEAD and ACCESSORIES

Item specifications for MICRO SHORE A MEASURING HEAD and ACCESSORIES

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|-------|------------|-----------------------|--------|
| 1 | Micro Shore A (Shore AM) testing unit conforming to ISO 48-4, ASTM D2240 standard to be installed on the multi unit tester. | | - | | |

| | | | | | |
|---|--------------------------|--|--------------------|--|--|
| 2 | General Description | Micro Shore A (Shore AM) testing unit conforming to ISO 48-4, ASTM D2240 standard to be installed on the multi unit tester. | Yes / No / Explain | | |
| 3 | Range | 0 to 100 Micro Sh.A | Yes / No / Explain | | |
| 4 | Resolution | 0.01 Micro Sh.A | Yes / No / Explain | | |
| 5 | Accuracy | ± 1 Micro Sh.A | Yes / No / Explain | | |
| 6 | Calibration of equipment | The instrument shall be supplied with calibration certificate conforming to ISO 48-4 and ASTM D2240 standard with traceability. The certificate includes follows. 1. Calibration of the force applied by the spring vs indentation 2. Calibration of the hardness reading vs indentation 3. Calibration of the test time. | Yes / No / Explain | | |
| 7 | Standard blocks | 5 nos of rubber samples shall be supplied for verification of Micro Shore A tester with standard hardness values of 20-90 Micro Sh.A. The samples should be supplied with 1. Calibration certificate and traceability. 2. Single identification label 3. Wooden protection box | Yes / No / Explain | | |
| 8 | Range of application | Suitable for hardness measuring on flat and curved surfaced specimens with diameter ≥1.5mm and thickness ≥1.5mm prescribed under standards. | Yes / No / Explain | | |

Document : document

4. SHORE D MEASURING HEAD AND ACCESSORIES

Item specifications for SHORE D MEASURING HEAD AND ACCESSORIES

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---|---|--------------------|-----------------------|--------|
| 1 | Shore D testing unit conforming to ASTM D 2240 standard to be installed on the multi unit tester. | | - | | |
| 2 | General Description | Shore D testing unit conforming to ASTM D 2240 standard to be installed on the multi unit tester. | Yes / No / Explain | | |
| 3 | Range | 0 to 100 Sh.D | Yes / No / Explain | | |
| 4 | Resolution | 0.01 Sh.D | Yes / No / Explain | | |
| 5 | Accuracy | ± 1 Sh.D | Yes / No / Explain | | |
| 6 | Calibration of equipment | The instrument shall be supplied with calibration certificate with traceability. The certificate includes follows. 1. Calibration of the force applied by the spring vs indentation 2. Calibration of the hardness reading vs indentation 3. Calibration of the test time. | Yes / No / Explain | | |
| 7 | Standard blocks | Samples required for verifying minimum 5 measurements with standard hardness values of 20-90 Sh.D. The samples should be supplied with 1. Calibration certificate and traceability. 2. Single identification label 3. Wooden protection box | Yes / No / Explain | | |

| | | | | | |
|---|----------------------|--|--------------------|--|--|
| 8 | Range of application | Suitable for hardness measuring on flat and curved surfaced specimens with diameter 35 mm (min) and thickness 6 mm (min) prescribed under standards. | Yes / No / Explain | | |
|---|----------------------|--|--------------------|--|--|

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5. O RING HOLDING DEVICE FOR HARDNESS MEASUREMENT

Item specifications for O RING HOLDING DEVICE FOR HARDNESS MEASUREMENT

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|------------------------------|--|--------------------|-----------------------|--------|
| 1 | O RING HOLDING DEVICE | | - | | |
| 2 | General Description | This centering device should allows to quickly carry out hardness test of O rings with cross section diameter between 1.5mm to 11mm. | Yes / No / Explain | | |
| 3 | Oring dimension to be tested | Device should be capable of holding Oring with outer diameter of 5mm to 200 mm and Oring cut pieces of minimum 10mm length. | Yes / No / Explain | | |

| | | | | | |
|---|------------------|---|--------------------|--|--|
| 4 | Fixing mechanism | <p>The device has to be applied to the standard plate of the instrument through magnetic fixing which allows rapid installation and removal</p> <p>The adjustment wheel allows you to set the distance between the cylinders according to the cross section diameter of the Oring.</p> <p>The fixing clip for the correct positioning of curved pieces.</p> <p>The integrated extension plate should allow holding large pieces of O ring up to 200mm ID.</p> | Yes / No / Explain | | |
|---|------------------|---|--------------------|--|--|

[Document : document](#)

6. DATA ACQUISITION EQUIPMENT

Item specifications for DATA ACQUISITION EQUIPMENT

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-----------------------|---|--------------------|-----------------------|--------|
| 1 | Data acquisition unit | Intel Core I5 Processor -9th Gen, 8GB Ram, 1 TB Hard disk, 22" (min) Monitor, Keyboard Mouse, Windows 10 Professional, +LAN Card, MSOffice Home & Business 2019 | Yes / No / Explain | | |
| 2 | Printer | Color Lazer Printer | Yes / No / Explain | | |
| 3 | Table | Table Wheel mounted Table (steel/wooden) for placing Multi- Unit Hardness Tester, PC and printer. | Yes / No / Explain | | |

[Document : document](#)

Common Specifications (Applicable for all items)

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|------------------------------|--|--------------------|-----------------------|--------|
| 1 | Supply package shall include | <ul style="list-style-type: none">• Life time licensed software with data acquisition unit and laser printer• Wheel mounted steel/wooden table with bottom shelf/drawers for accommodating the machine, data acquisition unit (PC) and printer.• Free technical support & yearly calibration during warranty• Required number of Anti-vibration mounts to be provided | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. confirmation of specification

2. Price bid in pdf (Price Bid Related)

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | The equipment shall be provided with a warranty certificate and calibration certificate with traceability. | Yes / No / Explain | |
| 2 | Party shall submit technical brochures, catalogues for all the subsystems proposed (including bought out items, if any) with full features and capabilities. | Yes / No / Explain | |
| 3 | If the software is upgraded within 5 years from installation the same shall be done free of cost | Yes / No / Explain | |
| 4 | Any software used for the system has to be supplied to VSSC in installable CD media, so that the software can be reinstalled at VSSC in case of a system crash. | Yes / No / Explain | |
| 5 | Machine maintenance kit with all necessary tools has to be supplied free of cost | Yes / No / Explain | |
| 6 | The instrument and accessories must be designed with all necessary safety interlocks and earthing for operators safety | Yes / No / Explain | |
| 7 | Detailed compliance matrix of our specifications and supplier specifications item by item has to be filled and provided along with the quotation | Yes / No / Explain | |
| 8 | Time required attending ON CALL basis service is to be mentioned | Yes / No / Explain | |
| 9 | Guaranteed after sale service for a minimum of 10 years should be committed | Yes / No / Explain | |
| 10 | List and cost of essential spares during AMC has to be submitted along with quote | Yes / No / Explain | |
| 11 | Spares for the trouble free operation for a minimum of three years after the warranty period shall be provided. | Yes / No / Explain | |
| 12 | AMC & calibration for 3 years after the warranty period shall be quoted separately | Yes / No / Explain | |
| 13 | Supplier shall provide Warranty for all the systems and sub systems at least 36 months from the date of commissioning and acceptance | Yes / No / Explain | |

| | | | |
|----|--|--------------------|--|
| 14 | Supplier shall carry out the calibration of all the transducers and sensors traceable to national or international standards and due certificate has to be provided. | Yes / No / Explain | |
| 15 | Pre-installation site requirement like electrical shall be provided in the quotation | Yes / No / Explain | |
| 16 | Training for 2 persons on the operation & day-to-day maintenance of all the systems and features has to be provided at user's site. | Yes / No / Explain | |
| 17 | Detailed operational and service manuals in English including essential circuit diagrams for all systems and subsystems are to be provided | Yes / No / Explain | |
| 18 | System has to be commissioned, calibrated and demonstrated | Yes / No / Explain | |
| 19 | Installation, Commissioning, Demonstration and Testing at our site | Yes / No / Explain | |
| 20 | Breakup cost of each item should be provided along with the quote | Yes / No / Explain | |
| 21 | Taxes and other costs, | Yes / No / Explain | |
| 22 | 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 | |
| 23 | Delivery Terms (FOR VSSC) | Yes / No / Explain | |
| 24 | Delivery Period (Pls mention the delivery period) | Yes / No / Explain | |
| 25 | 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 | |
| 26 | Warranty (36 months) | Yes / No / Explain | |

| | | | |
|----|--|--------------------|--|
| 27 | <p>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).</p> | Yes / No / Explain | |
| 28 | <p>Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).</p> | Yes / No / Explain | |
| 29 | <p>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.</p> | Yes / No / Explain | |
| 30 | <p>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.</p> | Yes / No / Explain | |

| | | | |
|----|---|--------------------|--|
| 31 | 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 | |
| 32 | PO Placement Address (with Name and Contact Details of sales person concerned). | Yes / No / Explain | |
| 33 | Any Other Terms | Yes / No / Explain | |
| 34 | Offer Validity(180 days) | Yes / No / Explain | |
| 35 | Foreign OEMs/Agents quoting on behalf of Foreign OEMs are permitted to quote. High Sea Sales Quotes not preferred generally. The bids shall be in INR/appropriate foreign currency. | Yes / No / Explain | |
| 36 | AMC: You shall undertake Non-Comprehensive AMC for a period of Three years (after completion of warranty period). You shall provide detailed AMC quote with rates (break-up cost for each year for 3 years) with list of spares and also provide scope of AMC including no: of Preventive Maintenance (2 visits per year)/Breakdown visits (2 visits per year). | Yes / No / Explain | |
| 37 | Bidders may ensure that only the basic cost of each item is entered against the unit price column in the price bid. All the other charges entered will be treated as extra. In case of local offers, please mention applicable tax percentage against each item category which will be extra. The quote will be evaluated on this basis only and bidders cannot claim they have entered all inclusive price, at a later stage. Hence bidders are advised to exercise due diligence while quoting. | Yes / No / Explain | |

| | | | |
|----|---|--------------------|--|
| 38 | <p>This being a Two Part Tender, Cost/rates shall only be mentioned in the Price Bid Only. All the documents being uploaded like quote split up details, AMC cost etc should not contain the rates/costs. However a copy of your PRICE BID,AMC quote etc WITHOUT PRICE SHALL BE UPLOADED in the Documents Solicited from the Vendor Field[available in Bid forms] TO KNOW THE PATTERN OF QUOTE,[ENSURE NOT TO MENTION ANY PRICE,OTHERWISE THE QUOTE WILL BE INVALID.]</p> | Yes / No / Explain | |
|----|---|--------------------|--|

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|--|-----------|------------|----------|-------------|--------|
| 1 | Multiunit automatic hardness tester with multi indentors | 1.00 Nos. | | - | | |
| 2 | SHORE A MEASURING HEAD and ACCESSORIES | 1.00 Nos. | | - | | |
| 3 | MICRO SHORE A MEASURING HEAD and ACCESSORIES | 1.00 Nos. | | - | | |
| 4 | SHORE D MEASURING HEAD AND ACCESSORIES | 1.00 Nos. | | - | | |
| 5 | O RING HOLDING DEVICE FOR HARDNESS MEASUREMENT | 1.00 Nos. | | - | | |
| 6 | DATA ACQUISITION EQUIPMENT | 1.00 Nos. | | - | | |

Common charges (Applicable for all items)

| | |
|---|--|
| AMC Charges for 1st Year after warranty period | |
| AMC Charges for 2nd Year after warranty period | |
| AMC Charges for 3rd Year after warranty period | |
| Installation Charges (extra if any) | |
| Freight Charges (extra if any) | |
| Packing Charges (extra if any) | |
| Spares Cost - optional(Lump Sum Price) | |