

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

## **Tender for 10 kN Universal Testing Machine**

**Bids to be submitted online**

**Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400182501 dated 02-05-2024**

## A. Tender Details

Tender No :	<b>VSSC/PURCHASE UNIT III (SPRE)/VS202400182501</b>
Tender Date :	<b>02-05-2024</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>PURCHASE UNIT III (SPRE)</b>
Centre :	<b>VIKRAM SARABHAI SPACE CENTRE (VSSC)</b>

### 10 kN Universal Testing Machine

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. Foreign Bidders are not permitted to quote. Please make note of the same.

#### A.1 Tender Schedule

Bid Submission Start Date :	<b>02-05-2024 14:00</b>
Bid Clarification Due Date :	<b>17-05-2024 14:00</b>
Bid Submission Due Date :	<b>17-06-2024 14:00</b>
Bid Opening Date :	<b>17-06-2024 14:01</b>
Price Bid Opening Date :	<b>18-07-2024 14:01</b>

## **B. Tender Attachments**

NA

### **Instructions To Vendors**

#### **1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)**

1. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(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.

#### **3. ACCEPTANCE OF STORES:**

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by

the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 90 days from the date of opening of the tender.

b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. **DESPATCH:** The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

#### 8. **GUARANTEE & REPLACEMENT:**

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called

upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

**9. PACKING FORWARDING & INSURANCE:** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

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

**11. PRICES:** Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

**12. REJECTED STORES:**

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

**13.** Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

## 15. TERMS & CONDITIONS OF TENDER

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

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

18. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

19. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

20. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

21. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

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

23. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

## 2. 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.

### **3. PPP Make in India(Non- Divisible Items-Class I & II Local Suppliers Only)**

1. 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:-

2. a) The subject item falls under Non-divisible category. b) The offers sought only from Class-I & Class-II local suppliers

3. 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.

4. '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.

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

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

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

8. 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.

9. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:

a)If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder.

b) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of

purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).

c) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

10. 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.

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.

12. 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.

13. 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.

14. 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.

15. 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.



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

#### **4. Specific Terms and Conditions to Tender (MII 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).

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

15. (XV) 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.

16. (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.

17. (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.

18. (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.

19. (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.

20. (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.

21. (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.

22. (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.

**23. 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.

## **5. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA**

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of

bids and should be valid at the time of placement of order.

## C. Bid Templates

### C.1 Technical Bid - 10 kN Universal Testing Machine

#### 1. Universal Testing Machines

##### Item specifications for Universal Testing Machines

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply, Installation and Training on table top universal testing machine of 10 kN Capacity	specification attached in separate sheet	Yes / No / Explain		

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

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply, installation and training on table top universal testing machine of 10 kN Capacity:	10 kN table top universal testing machine for conducting mechanical tests in tension, compression, flexure, bend, shear modes. The system should consist of necessary load frames, drive system, interchangeable load cells with suitable fittings, data acquisition system, grips and fixtures corresponding to aforementioned tests. Calibration and accuracy details should conform to ASTM and ISO standards. Detailed specifications are given as follows	Yes / No / Explain		

2	Equipment Details :	The universal testing machine instrument shall be dual column, ball screw driven, servo controlled, electro-mechanical with integrated digital closed loop control and data acquisition electronics.	Yes / No / Explain		
3	Samples to be tested:	Rubbers, elastomers, polymers, plastics, ceramics, polymer /ceramic composites, thin films, fabrics, foams and fibres etc.	Yes / No / Explain		
4	Load Frame: Load Capacity:	10 kN	Yes / No / Explain		
5	Load Frame: No. of columns:	Dual column	Yes / No / Explain		
6	Load Frame: Mounting:	The equipment shall have vertically mounted load frames with fixed lower jaw and movable upper jaw	Yes / No / Explain		
7	Load Frame: Vertical Test Space:	1300 mm or higher	Yes / No / Explain		
8	Load Frame: Column spacing:	400 mm or higher	Yes / No / Explain		
9	Load Frame: Total crosshead travel:	1300 mm or higher	Yes / No / Explain		
10	Load Frame: Crosshead Speed range:	0.001-1000 mm/min	Yes / No / Explain		
11	Load Frame: Return Speed Maximum:	1000 mm/min or better	Yes / No / Explain		
12	Load Frame: Stiffness of the frame:	50 kN/mm (minimum)(Certificate of stiffness to be provided along with the offer)	Yes / No / Explain		
13	Load Frame: Accuracy of crosshead speed:	0.1 % of set speed measured over full speed range or better	Yes / No / Explain		
14	Load Frame: Drive system's Position control resolution:	0.0001mm or better	Yes / No / Explain		

15	Load Frame: Position measurement accuracy:	$\pm 0.01$ mm or 0.05 % or better	Yes / No / Explain		
16	Load Frame: Cross head position repeatability:	$\pm 0.05$ mm or better	Yes / No / Explain		
17	Load Frame: Calibration of cross head speed:	Cross head speed shall meet ASTM E- 2658 class A or equivalent ISO standard requirements for the range offered. (Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
18	Load Frame: Calibration of crosshead displacement:	Cross head displacement shall meet ASTM E-2309 class A or equivalent ISO standard requirements. (Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
19	Load Cell:	Two interchangeable strain gauge-based class A load cells with capacity 10 kN and 1 kN meeting calibration and accuracy class 0.5 or ASTM E74 class A.	Yes / No / Explain		
20	Load Cell: Load range:	0.4 to 100% of the capacity	Yes / No / Explain		
21	Load Cell: Load accuracy:	0.5% of full scale to 1/100 of load cell capacity as per ISO 7500-1 and ASTM E74((Load cell accuracy test certificate to be provided along with the offer)	Yes / No / Explain		
22	Load Cell: Calibration:	All the load cells shall be calibrated as per ASTM E74/ISO7500-1 Standards. Certificate of calibration for all the load cells shall be provided along with the offer.	Yes / No / Explain		



23	Load Cell: Overload capacity:	Overload capacity without permanent zero shift should be 110% of the capacity or better	Yes / No / Explain		
24	Load Cell: Attachment /Fittings:	The load cells shall be supplied with suitable attachment fittings /kits to fix to the crosshead.	Yes / No / Explain		
25	Strain Measurement System:	Should conform to ASTM E83 or ISO 9513 or both	Yes / No / Explain		
26	Strain measurement accuracy:	0.6 % of reading $\pm$ 25 % of calibration point $\pm$ 1 count on the display, whichever is greater.	Yes / No / Explain		
27	Fixtures, grips and accessories	Grips and fixtures as per ASTM D412, D638, D882.	Yes / No / Explain		
28	Pneumatic side action grips:	Pneumatic side action grips of max capacity 5 kN with necessary coupling pins equipped with manual air switch, <ul style="list-style-type: none"> <li>• Sample width: Up to 30mm or above</li> <li>• Specimen thickness: Up to 15mm or above.</li> <li>• It shall be possible to test thin films of thickness 20 micrometer onwards</li> <li>• Jaw faces rubber coated (set of 6 faces)</li> <li>• Jaw faces serrated (set of 6 faces)</li> </ul>	Yes / No / Explain		
29	Pneumatic foot switch:	1 set capable of connecting directly to the grips, Foot operated single pedal switch to open and close grips	Yes / No / Explain		
30	Self-tightening roller grips:	Self-tightening roller grips for precision testing of elastomeric and flexible plastic materials providing non- slip gripping action with spring action <ul style="list-style-type: none"> <li>• Grip with serrated eccentric roller type clamping action.</li> <li>• Capacity:5 kN</li> <li>• Specimen Width : Up to 75 mm or above</li> <li>• Specimen thickness: Up to 8 mm or above</li> </ul>	Yes / No / Explain		

31	Universal parallel wedge grips:	Universal parallel wedge grips with load capacity 10 kN (min) for tensile testing as per ASTM D-638 and shear testing as per ASTM D- 1002 of flat specimens	Yes / No / Explain		
32	Coupling pins :	Coupling pins for all the fixtures and load cells shall be provided	Yes / No / Explain		
33	Flexural fixture:	Flexural fixture for 3-point bending tests as per ASTM D-790 and ASTM D- 2344. Load capacity shall be 10 kN (min.).	Yes / No / Explain		
34	Compression test kit :	Compression test kit as per ASTM D695 and D1621-16 with Compression platen, min.130 mm diameter, Force capacity:10 kN with rigid coupling	Yes / No / Explain		
35	Instrument control and data acquisition: Data System:	Data System: Latest generation i7 computer with minimum 22" LCD/LED and RAID-2 option supporting the equipment software and user interface along with colour laser printer	Yes / No / Explain		
36	Instrument control and data acquisition: Data acquisition channels:	Minimum 4 (for load, displacement, strain-1, strain-2)	Yes / No / Explain		
37	Instrument control and data acquisition: Software:	Software for instrument control, diagnostics, monitoring, operation, method generation, analysis, real time data display, automatic calculation of mechanical properties like strength, modulus, strain etc., overlay of stress-strain curves, report generation, export of data and troubleshooting should be provided	Yes / No / Explain		

38	Instrument control and data acquisition: Pre-loaded analytical methods:	Pre-loaded analytical methods to perform tensile, compression, flexure, cyclic, relaxation, peel (180°, T) and shear tests (lap shear, double lap shear, inter laminar shear, quadrupole lap shear). Include appropriate calculation list for each type of test as per relevant international test standards (a list of standards should be provided). All the specimen configurations as per the relevant ASTM standards should be possible to give as input in the software	Yes / No / Explain		
39	Instrument control and data acquisition: User-defined analytical methods:	There shall be provision for creation, execution and sample testing with user defined-analytical methods using the software	Yes / No / Explain		
40	Instrument control and data acquisition: Self-identification and auto-calibration of the load cell:	There shall be provision for self-identification and auto calibration of the load cell through the software.	Yes / No / Explain		
41	Instrument control and data acquisition: Software Updation:	Any software updation done within ten years of installation and commissioning shall be provided, free of cost by the party.	Yes / No / Explain		
42	Safety features:	The testing machine should satisfy relevant safety requirements for testing systems.	Yes / No / Explain		
43	Safety features: Emergency stop:	Provision shall be made for the emergency stoppage of UTM functioning	Yes / No / Explain		
44	Safety features: Limit switches:	Limit switches shall be provided on the load frame to restrict the cross head movement	Yes / No / Explain		

45	Safety features: Safety shield:	Safety shield for protection of operator against broken specimen particles	Yes / No / Explain		
46	Safety features: Operator Safety.	The instrument and accessories must be designed with all necessary safety interlocks/valves and earthing for operators' safety.	Yes / No / Explain		
47	Spares and consumables:	Separate lists of spares and consumables for 5 years trouble-free operation shall be quoted	Yes / No / Explain		
48	Pre-delivery inspection:	Party has to agree for the pre-delivery inspection and testing of VSSC samples in the quoted model of instrument	Yes / No / Explain		
49	Installation and Commissioning	<ul style="list-style-type: none"> <li>• Installation, Commissioning, Demonstration and testing with all features at site (VSSC).</li> <li>• Equipment shall be accepted only upon calibrating and fulfilling the respective tendered specifications for load cells, displacement, cross head speed and extensometer after installation of the equipment at our site.</li> </ul>	Yes / No / Explain		
50	Electrical Requirements:	The instrument and accessories should work on 230V(single phase)/ 440V (three-phase), 50-60Hz power supp	Yes / No / Explain		
51	Service/spares support:	<ul style="list-style-type: none"> <li>• The supplier should have an office or an associate (agent) in India to provide after sales service, support and maintenance.</li> <li>• The party shall provide service/spares support to the quoted model for at least ten years from the date of installation and commissioning</li> </ul>	Yes / No / Explain		

52	Warranty and post-supply services:	Supplier shall provide warranty for all the systems and sub systems for at least 36 months from the date of commissioning and acceptance at VSSC.	Yes / No / Explain		
53	Scope of AMC:	<ul style="list-style-type: none"> <li>• Non-Comprehensive AMC (two preventive maintenance and one breakdown visit) &amp; calibration for 5 years after the warranty period shall be quoted separately.</li> <li>• List of essential spare parts required during AMC with cost documentary proof should be provided.</li> </ul>	Yes / No / Explain		

**Supporting Documents required from Vendor**

**1. Calibration certificate for offered cross head speed, cross head displacement, load cell and extensometer**

**2. Certificate proving frame axial stiffness of the machine**

**3. Detailed quote of Non-Comprehensive AMC & calibration for 5 years after the warranty period (Price Bid Related)**

**4. Details regarding warranty (Price Bid Related)**

**5. Detailed cost of accessories and spares (Price Bid Related)**

**6. Cost details of Instrument (Price Bid Related)**

**7. Local content declaration**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Party should not upload price details along with technical bid	Yes / No / Explain	
2	Training: 3 personnel need to be trained by qualified personnel of the supplier during the time of installation and commissioning (i.e., at VSSC)	Yes / No / Explain	
3	The Purchaser reserves the right to ask for a free demonstration/sample analysis of the quoted equipment for technical acceptability as per the tender specifications, before the opening of the Price bid.	Yes / No / Explain	
4	List of essential spare parts required during AMC with cost documentary proof has to be provided.	Yes / No / Explain	
5	Detailed pre-installation requirements and delivery period should be explicitly mentioned without any ambiguity.	Yes / No / Explain	
6	Party should have a strong service back-up in India with technically competent service engineers trained and certified by the factory. Documentary proof for the same has to be provided	Yes / No / Explain	
7	User list of the quoted model in India with full contact details shall be provided. Noncompliance to this condition may lead to rejection of the offer.	Yes / No / Explain	
8	Year of introduction of the quoted model (preferably latest) should be specified	Yes / No / Explain	
9	Any software used for the system has to be supplied to VSSC in installable CD/USB drive, so that the software can be reinstalled at VSSC in case of a system crash.	Yes / No / Explain	
10	Full certifications (ISO and calibration/traceability certificate for any standards used for calibration) has to be provided	Yes / No / Explain	
11	Detailed operational and service manuals in English including essential circuit diagrams and Trouble-shooting flowchart for all systems and subsystems have to be provided.	Yes / No / Explain	
12	Machine maintenance kit with all necessary tools has to be supplied free of cost.	Yes / No / Explain	

13	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	
14	Quotation shall give full technical details supported by well documented catalogues/ leaflets and evidence for the compliance should be available in the catalogue; without which offer will not be considered.	Yes / No / Explain	
15	Only the manufacturer or Approved / Authorized agencies should submit the quote. Relevant certificates need to be attached.	Yes / No / Explain	
16	Split up cost for instrument, accessories and AMC should be separately provided	Yes / No / Explain	
17	The quotation must clearly specify make and model of the equipment.	Yes / No / Explain	
18	Taxes and other costs [GST @ 5% as per Ministry of Finance, Dept. of Revenue Notification No. 25/2018 Integrated Tax (Rate) Schedule-I; SI.No.243B dated 31.12.2018 (Amendment to Notification No. 7/2018 - Integrated Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 - Integrated Tax (Rate) dated 28.06.2017]	Yes / No / Explain	
19	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	
20	Delivery Terms [FOR,VSSC, Trivandrum]	Yes / No / Explain	
21	Delivery Period (a)Please specify period for the item to be ready for conduction PDI	Yes / No / Explain	
22	(b) Please specify period required for supply the item on receipt of PDI clearance from VSSC	Yes / No / Explain	
23	(c) Please specify the period required for the completion of installation work from the date of intimation from VSSC on site readiness	Yes / No / Explain	

24	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	
25	Warranty [3 year]	Yes / No / Explain	
26	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	
27	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).	Yes / No / Explain	
28	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	
29	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	



30	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	
31	Please quote your lowest AMC charges per year for 5 Years. Percentage of taxes, if any payable shall be shown separately. The rates shall remain firm and fixed till the completion of the contract period. Scope of AMC shall also be mentioned	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	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 16/09/2020- 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.	Yes / No / Explain	
36	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.	Yes / No / Explain	

37	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.	Yes / No / Explain	
38	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.	Yes / No / Explain	
39	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.	Yes / No / Explain	
40	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.	Yes / No / Explain	
41	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	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	Universal Testing Machines	1.00 Nos.		-		
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**Common charges (Applicable for all items)**

<b>AMC Charges for 1st Year after warranty period</b>	
<b>AMC Charges for 2nd Year after warranty period</b>	
<b>AMC Charges for 3rd Year after warranty period</b>	
<b>AMC Charges for 4th Year after warranty period</b>	
<b>AMC Charges for 5th Year after warranty period</b>	
<b>Spares Cost - optional( Lump Sum Price )</b>	
<b>Other Charges (If any)</b>	
<b>Installation Charges</b>	
<b>P&amp;F (Amount)</b>	