

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

Tender for 50kN UNIVERSAL TESTING MACHINE

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202200607101 dated 03-04-2023

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT III (SPRE)/VS202200607101**

Tender Date : **03-04-2023**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT III (SPRE)**

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

50kN 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. Please make note of the same.

A.1 Tender Schedule

Bid Submission Start Date : **03-04-2023 17:00**

Bid Clarification Due Date : **01-05-2023 14:00**

Bid Submission Due Date : **18-05-2023 14:00**

Bid Opening Date : **18-05-2023 14:01**

Price Bid Opening Date : **29-05-2023 14:00**

B. Tender Attachments

NA

Instructions To Vendors

1. This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote.
2. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.
3. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.
4. 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/ Price bid related document. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.
5. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.
6. The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.
7. In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
8. False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
9. False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General

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

10. 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.

11. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER where the indent value is Rs. 2.00 lakhs & above for indigenous stores items

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

(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.

12. 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 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. 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.

14. 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 - 50kN UNIVERSAL TESTING MACHINE

1. Universal Testing Machines

Item specifications for Universal Testing Machines

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	SUPPLY, INSTALLATION, COMMISSIONING AND TRAINING ON UNIVERSAL TESTING MACHINE	Universal Testing Machine (UTM) is an equipment used for the characterization of mechanical properties of materials in different test modes namely tension, compression and shear. 50kN machine is intended to perform tests on rubbers, elastomers, composites, fabric, films, adhesives, ceramics, foams and fibers. The instrument should be automatic, computer controlled and capable of analyzing materials in the tensile/compressive/shear/peel modes. Detailed technical specifications of the item are as follows:	Yes / No / Explain		
2	Equipment nature: Equipment type and model: a.	The equipment shall be ball screw driven, servo controlled, electro-mechanical universal testing machine with integrated digital closed loop control and data acquisition electronics	Yes / No / Explain		
3	Equipment nature: Equipment type and model: b	The equipment model shall be table top type	Yes / No / Explain		

4	Equipment nature: Tests to be performed	The equipment shall be capable of performing tensile, compressive, flexural, peel and shear tests for the determination of strength and /or strain and modulus	Yes / No / Explain		
5	Equipment nature: Samples to be tested	Rubbers, polymers, plastics, ceramics, polymer /ceramic composites, thin films, fabrics	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: Maximum load capacity	50 kN	Yes / No / Explain		
8	No. of columns	Two	Yes / No / Explain		
9	Frame axial stiffness	170 kN /mm or better (Failure to provide test certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
10	Load frame: Vertical test space or crosshead travel distance available after attaching load cell	1400 mm (minimum)	Yes / No / Explain		
11	Load frame: Space between columns	400 mm (minimum)	Yes / No / Explain		
12	Crosshead speed range	0.001 -500 mm/min or better	Yes / No / Explain		
13	Crosshead speed accuracy	± 0.1 % of the set value or better	Yes / No / Explain		
14	Load frame: Crosshead speed resolution	± 0.25 % of the set value or better	Yes / No / Explain		

15	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		
16	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		
17	Load frame: Load cells	One number each of load cells of capacity 50 kN, 10 kN and 1 kN.	Yes / No / Explain		
18	Load cell accuracy	± 0.5 % or better	Yes / No / Explain		
19	Calibration of load cell:a.	All the load cells shall meet criteria for ISO 7500-1 class 0.5 or ASTM E74 class A.	Yes / No / Explain		
20	Calibration of load cell: b.	All the load cells shall be rated for 150% of digital overload and 300% of mechanical overload	Yes / No / Explain		
21	Calibration of load cell: c.	(Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
22	Load frame: Connectors and piggy back adaptors for load cells:a.	Piggy back adaptors/connectors shall be provided for connecting a lower capacity load cell without removing the higher capacity load cell	Yes / No / Explain		

23	Load frame: Connectors and piggy back adaptors for load cells:b.	All the necessary adaptors/ connectors for the quoted load cells shall be supplied along with the equipment	Yes / No / Explain		
24	Load frame: Extensometer:a	Contact or non-contact extensometers for brittle specimens and elastomers shall be quoted separately	Yes / No / Explain		
25	Load frame: Extensometer:b	All the quoted extensometers shall meet criteria for ASTM E-83 class B-2/ (equivalent ISO standards) or better	Yes / No / Explain		
26	Load frame: Extensometer:c	(Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
27	Fixtures, grips and accessories: Temperature range	All the fixtures, grips and accessories detailed under item nos. 28 to 40 shall be able to use in the temperature range - 100°C to + 300°C or better	Yes / No / Explain		
28	Fixtures, grips and accessories: Compression test: a	All the fixtures and accessories for compression test	Yes / No / Explain		
29	Fixtures, grips and accessories: Compression test :b	Load capacity shall be 50 kN (min.).	Yes / No / Explain		
30	Fixtures, grips and accessories: Compression test:c.	Plate dia shall be 100 mm (min.) or better.	Yes / No / Explain		
31	Fixtures, grips and accessories: 3-point bending test: a.	All the fixtures and accessories for 3-point bending tests as per ASTM D-790 and ASTM D-2344	Yes / No / Explain		
32	Fixtures, grips and accessories: 3-point bending test:b.	Load capacity shall be 10 kN (min.).	Yes / No / Explain		
33	Fixtures, grips and accessories: Wedge action grips:a.	Wedge action grips for tensile testing as per ASTM D-638 and shear testing as per ASTM D-1002 of flat specimens	Yes / No / Explain		
34	Fixtures, grips and accessories: Wedge action grips:b.	Load capacity shall be 50 kN (min.)	Yes / No / Explain		

35	Fixtures, grips and accessories: Wedge action grips :c	Jaw faces which can accommodate flat specimens of width upto 29 mm and thickness upto 14 mm	Yes / No / Explain		
36	Fixtures, grips and accessories: Self-tightening roller grips:a	Self-tightening roller grips for testing elastomers as per ASTM D-412	Yes / No / Explain		
37	Fixtures, grips and accessories: Self-tightening roller grips: b	Load capacity shall be 5 kN (min.)	Yes / No / Explain		
38	Fixtures, grips and accessories: Self-tightening roller grips: c	It shall be possible to test specimens of thickness 0-7 mm or better	Yes / No / Explain		
39	Fixtures, grips and accessories: Screw action grips :a	Screw action grips with load capacity 1 kN (min.)	Yes / No / Explain		
40	Fixtures, grips and accessories: Screw action grips : b	Jaw faces with height 25-50 mm	Yes / No / Explain		
41	Fixtures, grips and accessories: Pneumatic action grips:a	Pneumatic action grips and all essential accessories for testing specimens as per ASTM D-882	Yes / No / Explain		
42	Fixtures, grips and accessories: Pneumatic action grips: b	Load capacity shall be 1 kN (min.)	Yes / No / Explain		
43	Fixtures, grips and accessories: Pneumatic action grips: c	It shall be possible to test thin films of thickness 20 micrometer onwards	Yes / No / Explain		
44	Fixtures, grips and accessories: Pneumatic action grips: d	Jaw faces with height 25-50 mm	Yes / No / Explain		
45	Instrument control and data acquisition: 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		
46	Instrument control and data acquisition: Data acquisition channels	Minimum 4 (for load, displacement, strain-1, strain-2)	Yes / No / Explain		

47	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		
48	Instrument control and data acquisition: Pre-loaded analytical methods	Pre-loaded analytical methods for carrying out tensile, compression, shear (lap shear, double lap shear, interlaminar shear, quadrupole lap shear), peel (180°, T) tests shall be provided in the software.	Yes / No / Explain		
49	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		
50	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		
51	Environmental chamber: Nature and appearance : a	The environmental chamber shall be compatible with the universal testing machine being offered by the party.	Yes / No / Explain		
52	Environmental chamber: Nature and appearance : b	It shall have transparent window (min. 400 cm ²) and internal lights to view the progress of testing.	Yes / No / Explain		

53	Environmental chamber: Nature and appearance : c	Temperature control shall be automatic with safety provisions against temperature overshooting.	Yes / No / Explain		
54	Environmental chamber: Heat circulation mode	Forced convection with variable fan speed selection	Yes / No / Explain		
55	Environmental chamber: Temperature range	-100° C to + 300° C or better.	Yes / No / Explain		
56	Environmental chamber: Temperature accuracy	±2 ° C or better	Yes / No / Explain		
57	Environmental chamber: Mounting: a	The chamber shall be roller-mounted to fit into the test space between the load frame	Yes / No / Explain		
58	Environmental chamber: Mounting : b	There shall be removable, instrument cut-out ports on the upper and lower surfaces of the chamber to allow the chamber to be rolled in to the pre-aligned load string set up containing push/pull rods, adaptors, fixtures and /or grips	Yes / No / Explain		
59	Environmental chamber: Mounting : c	It shall be possible to roll back the chamber over rails from the test space without disturbing the pre-aligned load string set up	Yes / No / Explain		
60	Safety features: Emergency stop	Provision shall be made for the emergency stoppage of UTM functioning	Yes / No / Explain		
61	Safety features: Limit switches	Limit switches shall be provided on the load frame to restrict the cross head movement	Yes / No / Explain		

62	Safety features: Temperature overshooting	Details of safety features in the environmental chamber against temperature overshooting and operator's safety shall be provided along with the offer	Yes / No / Explain		
63	OPTIONAL item: 100N load cell with adaptors : a	100N load cell with the required adaptors/connectors	Yes / No / Explain		
64	OPTIONAL item: 100N load cell with adaptors : b	It shall meet criteria for ISO 7500-1 class 0.5 or ASTM E74 class A.	Yes / No / Explain		
65	OPTIONAL item: 100N load cell with adaptors : c	It shall be rated for 150% of digital overload and 300% of mechanical overload	Yes / No / Explain		
66	OPTIONAL item: 100N load cell with adaptors :d	Certificate proving the same with traceability shall be provided along with the offer	Yes / No / Explain		
67	OPTIONAL item: Wedge action grips (for cylindrical specimen): a	Wedge action grips for testing cylindrical specimens of dia 17-30 mm as per ASTM D-638	Yes / No / Explain		
68	OPTIONAL item: Wedge action grips (for cylindrical specimen): b	Load capacity shall be 50 kN (max.)	Yes / No / Explain		
69	OPTIONAL item: Safety shield	Safety shield for protection of operator against broken specimen particles	Yes / No / Explain		
70	OTHERS: Essential items	All essential items required for the functioning of the equipment using the units tendered above shall be completely quoted by the party.	Yes / No / Explain		
71	OTHERS: Spares and consumables	Separate lists of spares and consumables for 5 years trouble-free operation shall be quoted	Yes / No / Explain		
72	OTHERS: Pre-delivery inspection	Pre-delivery inspection and testing of VSSC samples shall be undertaken by the party	Yes / No / Explain		

73	OTHERS:Calibration after installation	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.	Yes / No / Explain		
74	Certificates for item sl Nos. 9, 15, 16, 21, 26	Failure to provide the certificate along with the offer shall lead to rejection of offer	Yes / No / Explain		
75	Fulfilment of conditions mentioned in sl. nos. 72 and 73	Acceptance of the equipment shall be based on fulfillment of the requirement	Yes / No / Explain		
76	GENERAL: a	The instrument and accessories should work on 230V(single phase)/ 440V (three-phase), 50-60Hz power supply	Yes / No / Explain		
77	GENERAL:b	The instrument and accessories must be designed with all necessary safety interlocks/valves and earthing for operators' safety.	Yes / No / Explain		
78	GENERAL: c	Any software updation done within ten years of installation and commissioning shall be provided, free of cost by the party.	Yes / No / Explain		
79	GENERAL:d	The party shall provide service/spares support to the quoted model for at least ten years from the date of installation and commissioning	Yes / No / Explain		
80	GENERAL:e	Expert opinion from the operators dealing with machines of the same make will be considered as guide in the offer evaluation	Yes / No / Explain		
81	GENERAL:f	The party must provide the following:	Yes / No / Explain		

82	GENERAL:f1	Warranty of the entire supply for three years from the date of installation and acceptance by VSSC	Yes / No / Explain		
83	GENERAL:f2	Quote for AMC of the equipment as per VSSC rules for four years after the warranty period	Yes / No / Explain		
84	GENERAL:f3	User's list including name and contact details of the instrument	Yes / No / Explain		
85	GENERAL:f4	Pre-installation requirements	Yes / No / Explain		
86	GENERAL:f5	Installation, commissioning and on-site user training in instrument operation at VSSC	Yes / No / Explain		
87	GENERAL:f6	Maintenance kits, original brochures/specification sheets in English, operation/maintenance manual, troubleshooting manuals	Yes / No / Explain		
88	GENERAL:f7	Certifications (ISO/calibration/traceability)	Yes / No / Explain		
89	GENERAL:f8	Replacement (free of cost) of spares taken from our stock during guarantee period	Yes / No / Explain		
90	GENERAL:f9	Signed compliance statement	Yes / No / Explain		

Document : Tech Specification

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
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1	SUPPLY, INSTALLATION, COMMISSIONING AND TRAINING ON UNIVERSAL TESTING MACHINE	Universal Testing Machine (UTM) is an equipment used for the characterization of mechanical properties of materials in different test modes namely tension, compression and shear. 50kN machine is intended to perform tests on rubbers, elastomers, composites, fabric, films, adhesives, ceramics, foams and fibers. The instrument should be automatic, computer controlled and capable of analyzing materials in the tensile/compressive/shear/peel modes. Detailed technical specifications of the item are as follows:	Yes / No / Explain		
2	Equipment nature: Equipment type and model: a.	The equipment shall be ball screw driven, servo controlled, electro-mechanical universal testing machine with integrated digital closed loop control and data acquisition electronics	Yes / No / Explain		
3	Equipment nature: Equipment type and model: b	The equipment model shall be table top type	Yes / No / Explain		
4	Equipment nature: Tests to be performed	The equipment shall be capable of performing tensile, compressive, flexural, peel and shear tests for the determination of strength and /or strain and modulus	Yes / No / Explain		
5	Equipment nature: Samples to be tested	Rubbers, polymers, plastics, ceramics, polymer /ceramic composites, thin films, fabrics	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: Maximum load capacity	50 kN	Yes / No / Explain		
8	No. of columns	Two	Yes / No / Explain		
9	Frame axial stiffness	170 kN /mm or better (Failure to provide test certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
10	Load frame: Vertical test space or crosshead travel distance available after attaching load cell	1400 mm (minimum)	Yes / No / Explain		
11	Load frame: Space between columns	400 mm (minimum)	Yes / No / Explain		
12	Crosshead speed range	0.001 -500 mm/min or better	Yes / No / Explain		
13	Crosshead speed accuracy	± 0.1 % of the set value or better	Yes / No / Explain		
14	Load frame: Crosshead speed resolution	± 0.25 % of the set value or better	Yes / No / Explain		
15	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		
16	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		
17	Load frame: Load cells	One number each of load cells of capacity 50 kN, 10 kN and 1 kN.	Yes / No / Explain		

18	Load cell accuracy	± 0.5 % or better	Yes / No / Explain		
19	Calibration of load cell:a.	All the load cells shall meet criteria for ISO 7500-1 class 0.5 or ASTM E74 class A.	Yes / No / Explain		
20	Calibration of load cell: b.	All the load cells shall be rated for 150% of digital overload and 300% of mechanical overload	Yes / No / Explain		
21	Calibration of load cell: c.	(Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
22	Load frame: Connectors and piggy back adaptors for load cells:a.	Piggy back adaptors/connectors shall be provided for connecting a lower capacity load cell without removing the higher capacity load cell	Yes / No / Explain		
23	Load frame: Connectors and piggy back adaptors for load cells:b.	All the necessary adaptors/ connectors for the quoted load cells shall be supplied along with the equipment	Yes / No / Explain		
24	Load frame: Extensometer: a	Contact or non-contact extensometers for brittle specimens and elastomers shall be quoted separately	Yes / No / Explain		
25	Load frame: Extensometer: b	All the quoted extensometers shall meet criteria for ASTM E-83 class B-2/ (equivalent ISO standards) or better	Yes / No / Explain		
26	Load frame: Extensometer: c	(Failure to provide certificate proving the same with traceability shall lead to rejection of the offer.)	Yes / No / Explain		
27	Fixtures, grips and accessories: Temperature range	All the fixtures, grips and accessories detailed under item nos. 28 to 40 shall be able to use in the temperature range - 100°C to + 300°C or better	Yes / No / Explain		

28	Fixtures, grips and accessories: Compression test: a	All the fixtures and accessories for compression test	Yes / No / Explain		
29	Fixtures, grips and accessories: Compression test :b	Load capacity shall be 50 kN (min.).	Yes / No / Explain		
30	Fixtures, grips and accessories: Compression test:c.	Plate dia shall be 100 mm (min.) or better.	Yes / No / Explain		
31	Fixtures, grips and accessories: 3-point bending test: a.	All the fixtures and accessories for 3-point bending tests as per ASTM D-790 and ASTM D-2344	Yes / No / Explain		
32	Fixtures, grips and accessories: 3-point bending test:b.	Load capacity shall be 10 kN (min.).	Yes / No / Explain		
33	Fixtures, grips and accessories: Wedge action grips:a.	Wedge action grips for tensile testing as per ASTM D-638 and shear testing as per ASTM D-1002 of flat specimens	Yes / No / Explain		
34	Fixtures, grips and accessories: Wedge action grips:b.	Load capacity shall be 50 kN (min.)	Yes / No / Explain		
35	Fixtures, grips and accessories: Wedge action grips :c	Jaw faces which can accommodate flat specimens of width upto 29 mm and thickness upto 14 mm	Yes / No / Explain		
36	Fixtures, grips and accessories: Self-tightening roller grips:a	Self-tightening roller grips for testing elastomers as per ASTM D-412	Yes / No / Explain		
37	Fixtures, grips and accessories: Self-tightening roller grips: b	Load capacity shall be 5 kN (min.)	Yes / No / Explain		
38	Fixtures, grips and accessories: Self-tightening roller grips: c	It shall be possible to test specimens of thickness 0-7 mm or better	Yes / No / Explain		

39	Fixtures, grips and accessories: Screw action grips :a	Screw action grips with load capacity 1 kN (min.)	Yes / No / Explain		
40	Fixtures, grips and accessories: Screw action grips : b	Jaw faces with height 25-50 mm	Yes / No / Explain		
41	Fixtures, grips and accessories: Pneumatic action grips:a	Pneumatic action grips and all essential accessories for testing specimens as per ASTM D-882	Yes / No / Explain		
42	Fixtures, grips and accessories: Pneumatic action grips: b	Load capacity shall be 1 kN (min.)	Yes / No / Explain		
43	Fixtures, grips and accessories: Pneumatic action grips: c	It shall be possible to test thin films of thickness 20 micrometer onwards	Yes / No / Explain		
44	Fixtures, grips and accessories: Pneumatic action grips: d	Jaw faces with height 25-50 mm	Yes / No / Explain		
45	Instrument control and data acquisition: 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		
46	Instrument control and data acquisition: Data acquisition channels	Minimum 4 (for load, displacement, strain-1, strain-2)	Yes / No / Explain		

47	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		
48	Instrument control and data acquisition: Pre-loaded analytical methods	Pre-loaded analytical methods for carrying out tensile, compression, shear (lap shear, double lap shear, interlaminar shear, quadrupole lap shear), peel (180°, T) tests shall be provided in the software.	Yes / No / Explain		
49	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		
50	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		
51	Environmental chamber: Nature and appearance : a	The environmental chamber shall be compatible with the universal testing machine being offered by the party.	Yes / No / Explain		
52	Environmental chamber: Nature and appearance : b	It shall have transparent window (min. 400 cm ²) and internal lights to view the progress of testing.	Yes / No / Explain		
53	Environmental chamber: Nature and appearance : c	Temperature control shall be automatic with safety provisions against temperature overshooting.	Yes / No / Explain		

54	Environmental chamber: Heat circulation mode	Forced convection with variable fan speed selection	Yes / No / Explain		
55	Environmental chamber: Temperature range	-100°C to + 300°C or better.	Yes / No / Explain		
56	Environmental chamber: Temperature accuracy	±2 ° C or better	Yes / No / Explain		
57	Environmental chamber: Mounting: a	The chamber shall be roller-mounted to fit into the test space between the load frame	Yes / No / Explain		
58	Environmental chamber: Mounting : b	There shall be removable, instrument cut-out ports on the upper and lower surfaces of the chamber to allow the chamber to be rolled in to the pre-aligned load string set up containing push/pull rods, adaptors, fixtures and /or grips	Yes / No / Explain		
59	Environmental chamber: Mounting : c	It shall be possible to roll back the chamber over rails from the test space without disturbing the pre-aligned load string set up	Yes / No / Explain		
60	Safety features: Emergency stop	Provision shall be made for the emergency stoppage of UTM functioning	Yes / No / Explain		
61	Safety features: Limit switches	Limit switches shall be provided on the load frame to restrict the cross head movement	Yes / No / Explain		
62	Safety features: Temperature overshooting	Details of safety features in the environmental chamber against temperature overshooting and operator's safety shall be provided along with the offer	Yes / No / Explain		
63	OPTIONAL item: 100N load cell with adaptors : a	100N load cell with the required adaptors/connectors	Yes / No / Explain		

64	OPTIONAL item: 100N load cell with adaptors : b	It shall meet criteria for ISO 7500-1 class 0.5 or ASTM E74 class A.	Yes / No / Explain		
65	OPTIONAL item: 100N load cell with adaptors : c	It shall be rated for 150% of digital overload and 300% of mechanical overload	Yes / No / Explain		
66	OPTIONAL item: 100N load cell with adaptors :d	Certificate proving the same with traceability shall be provided along with the offer	Yes / No / Explain		
67	OPTIONAL item: Wedge action grips (for cylindrical specimen): a	Wedge action grips for testing cylindrical specimens of dia 17-30 mm as per ASTM D-638	Yes / No / Explain		
68	OPTIONAL item: Wedge action grips (for cylindrical specimen): b	Load capacity shall be 50 kN (max.)	Yes / No / Explain		
69	OPTIONAL item: Safety shield	Safety shield for protection of operator against broken specimen particles	Yes / No / Explain		
70	OTHERS: Essential items	All essential items required for the functioning of the equipment using the units tendered above shall be completely quoted by the party.	Yes / No / Explain		
71	OTHERS: Spares and consumables	Separate lists of spares and consumables for 5 years trouble-free operation shall be quoted	Yes / No / Explain		
72	OTHERS: Pre-delivery inspection	Pre-delivery inspection and testing of VSSC samples shall be undertaken by the party	Yes / No / Explain		
73	OTHERS: Calibration after installation	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.	Yes / No / Explain		
74	Certificates for item sl Nos. 9, 15, 16, 21, 26	Failure to provide the certificate along with the offer shall lead to rejection of offer	Yes / No / Explain		

75	Fulfilment of conditions mentioned in sl. nos. 72 and 73	Acceptance of the equipment shall be based on fulfillment of the requirement	Yes / No / Explain		
76	GENERAL: a	The instrument and accessories should work on 230V(single phase)/ 440V (three-phase), 50-60Hz power supply	Yes / No / Explain		
77	GENERAL:b	The instrument and accessories must be designed with all necessary safety interlocks/valves and earthing for operators' safety.	Yes / No / Explain		
78	GENERAL: c	Any software updation done within ten years of installation and commissioning shall be provided, free of cost by the party.	Yes / No / Explain		
79	GENERAL:d	The party shall provide service/spares support to the quoted model for at least ten years from the date of installation and commissioning	Yes / No / Explain		
80	GENERAL:e	Expert opinion from the operators dealing with machines of the same make will be considered as guide in the offer evaluation	Yes / No / Explain		
81	GENERAL:f	The party must provide the following:	Yes / No / Explain		
82	GENERAL:f1	Warranty of the entire supply for three years from the date of installation and acceptance by VSSC	Yes / No / Explain		
83	GENERAL:f2	Quote for AMC of the equipment as per VSSC rules for four years after the warranty period	Yes / No / Explain		
84	GENERAL:f3	User's list including name and contact details of the instrument	Yes / No / Explain		
85	GENERAL:f4	Pre-installation requirements	Yes / No / Explain		

86	GENERAL:f5	Installation, commissioning and on-site user training in instrument operation at VSSC	Yes / No / Explain		
87	GENERAL:f6	Maintenance kits, original brochures/specification sheets in English, operation/maintenance manual, troubleshooting manuals	Yes / No / Explain		
88	GENERAL:f7	Certifications (ISO/calibration/traceability)	Yes / No / Explain		
89	GENERAL:f8	Replacement (free of cost) of spares taken from our stock during guarantee period	Yes / No / Explain		
90	GENERAL:f9	Signed compliance statement	Yes / No / Explain		

Supporting Documents required from Vendor

1. Price bid related documents (Price Bid Related)

2. Calibration certificates for the offered cross head speed, cross head displacement, load cells and extensometers

3. Certificate proving frame axial stiffness of the machine

4. PDF format of your offer

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	As per VSSC purchase procedures/rules	Yes / No / Explain	
2	Pre-delivery inspection and testing of VSSC samples to be undertaken by the party,	Yes / No / Explain	
3	Applicable Taxes and other costs,	Yes / No / Explain	
4	This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid/ Price bid related document. 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	
5	Any other charges involved shall be specifically mentioned in your quote. Price split up shall be given in price bid related document only. Revealing price anywhere in the techno commercial bid will lead to rejection of offers.	Yes / No / Explain	
6	There should be no variation between the price quoted in the price bid template and PDF format of the price bid. In the event of any variation, the price quoted in the E-proc price bid template shall be considered.	Yes / No / Explain	
7	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 10% 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 Indemnity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
8	Warranty (3 years)	Yes / No / Explain	

9	AMC (You shall offer Non Comprehensive AMC for a period of 4 years after completion of warranty period with two preventive maintenance visits and on breakdown visit per year)	Yes / No / Explain	
10	Performance Bank Guarantee (PBG) Bank Guarantee @ 10% 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	
11	Delivery Terms (FOR VSSC).	Yes / No / Explain	
12	Delivery Period (Detailed delivery period with time required for installation from the date of supply shall be mentioned)	Yes / No / Explain	
13	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
14	Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. For import cases: 100% by Sight Draft with Bank Charges to respective accounts. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).	Yes / No / Explain	
15	PO Ordering Address with Name and Contact Details of Sales Person concerned (e-mail and phone number).	Yes / No / Explain	
16	Any Other Terms	-	

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)

P&F Charges	
Freight charge	
AMC Charges for 1st Year after warranty period	
AMC Charges for 2nd Year after warranty period	
AMC Charges for 3rd Year after warranty period	
AMC Charges for 4th Year after warranty period	
AMC Charges for 5th Year after warranty period	
Any Other Charges	
Other Charges (If any)	