

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

Tender for Thermography System for NDT of Composite Products

Bids to be submitted online

**Tender No.: VSSC/PURCHASE UNIT VI (CMSE Purchase)/VS202400545901 dated
12-12-2024**

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT VI (CMSE Purchase)/VS202400545901**

Tender Date : **12-12-2024**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT VI (CMSE Purchase)**

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

Thermography System for NDT of Composite Products

Quantity: 1 sets.

E-Procurement No. VSSC/PURCHASE UNIT VI (CMSE PURCHASE/CMSE/VS2024P0 5459 01 P-
Tenders are invited for the procurement of Supply, Installation, Commissioning ,Demonstration &
Training of Thermography System for NDT of Composites our E-procurement site
<https://eproc.vssc.gov.in>.- PT-TWO PART

BIDS CAN BE SUBMITTED UPTO 21/01/2025 [14:00 Hrs.] , TECHNICAL BID OPENING DATE :
21/01/2025 [15:00 Hrs.].

This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class

AAA AAA I and Class II Local Suppliers as defined under DPIIT order dtd 04/06/2020 Preference to make in India Order 2017 Revision. Non-Local Suppliers need not quote.

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

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

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

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

False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Only online tenders will be accepted. No manual / Postal / e-mail / fax offers will be entertained. No manual tender document will be issued. Parties interested to participate in this e-Tender are required to register themselves as vendors, if not already registered, in our e-procurement portal <https://eproc.vssc.gov.in> by downloading plugins and help demos listed on the home page of thee-procurement link mentioned above to complete the vendor registration process. They can seek help from help desk 0471-2565454 also as provided in the home page of e-procurement portal in case of any problem for registration and subsequent process. Vendors may please note that without registering in our e-procurement portal, they will not be able to quote for this e-tender.

Important Notice : Tender will be automatically closed on the due date [i.e. 02/01/2025 14:00 hrs.],if at least one offer is received. If the tender could not be opened on the first day due to any technical snag, it will be opened on the subsequent day as per the schedule.

This is a two-part tender, Technical & Commercial part (Part I) and Price Part (Part II) shall be uploaded separately. The tenderers should not attach any documents containing Price information along with Technical & Commercial Bid (Part I). However, a copy of your PRICE BID, AMC quote, etc. WITHOUT PRICE SHALL BE UPLOADED in the Documents Solicited from the Vendor Field [available in Bid forms] TO KNOW THE PATTERN OF QUOTE. [ENSURE NOT TO MENTION ANY PRICE, OTHERWISE THE QUOTE WILL BE INVALID]. We do not open PART II (Price Bid), if PART-I (Technical & Commercial offer) does not meet with our technical specification requirement

THE TECHNICAL DOCUMENTS NEED TO BE ATTACHED ONLINE AS A SINGLE PDF FILE WITHOUT ANY PRICE INFORMATION, TECHNICAL BID CONTAINING PRICE DETAILS WILL BE TREATED AS REJECTED. Tender No :VS2024 00 5459 01 Tender Date : 10 /12/2024 Purchase Entity :PURCHASE UNIT VI (CMSE Purchase)Centre :VSSC.

Price bid opening date indicated in the schedule is tentative only. Actual date will be determined after evaluation of techno commercial bid. Quotations shall be uploaded as a separate documents

A.1 Tender Schedule

| | |
|------------------------------|-------------------------|
| Bid Submission Start Date : | 12-12-2024 16:08 |
| Bid Clarification Due Date : | 08-01-2025 14:18 |
| Bid Submission Due Date : | 21-01-2025 14:00 |
| Bid Opening Date : | 21-01-2025 15:00 |
| Price Bid Opening Date : | 31-01-2025 14:18 |

B. Tender Attachments

NA

Instructions To Vendors

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

1. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.

2. 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: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 20%: Non-local supplier.

4. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.

5. 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.

6. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.

7. 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:-

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

9. '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.

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

11. 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.

12. 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.

13. 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.

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

15. 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.

16. 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.

2. Form No 20

1. INSTRUCTIONS TO TENDERERS

1. Quotation/Open Authorization shall be submitted online [only] complying specified schedule.
2. Late tenders and delayed tenders will not be considered.
3. Quotation should be valid for at least 90 days from the date of opening of the tender. [Mandatory]
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 quotation should be valid for 90 days (Single Part Tender) / 180 days (Two Part Tender) from the date of opening of the tender. [Mandatory]
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. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.
7. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be attached 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 non acceptance 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.
8. 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.

9. 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.

10. 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.

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

TERMS & CONDITIONS OF TENDER

1. DEFINITIONS :

(a) The term Purchaser shall mean the President of India or his successors or assigns.

(b) 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.

(c) 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.

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

2. 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.

3. SECURITY DEPOSIT:

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 three 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 10(b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

4. 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 as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser's site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in Para 4 (b) & (c) shall be the asked for guarantee period plus two months.

5. 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.

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. TEST CERTIFICATE :

Wherever required, test certificates should be sent along with the despatch documents.

8. 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. 8 (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.

9. 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.

10. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to repurchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of

such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

11. EXTENSION OF TIME :

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchasers right to recover liquidated damages under clause 10 thereof.

12. ERECTION OF PLANT & MACHINERY :

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

13. PAYMENT :

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

14. MODE OF PAYMENT :

Normally payment will be made for the accepted stores within 30 days from the date of receipt of the materials.

15. RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

16. INDEMNITY :

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this Contract are free and clean of infringement of any Patent, Copyright or Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the contract.

17. ARBITRATION :

In the event of any question, dispute or difference arising under these conditions or any conditions contained in the Purchase Order or in connection with this Contract (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase office or some other person appointed by him. It will be no objection that the arbitrator is a Government servant, that he had to deal with matter to which the Contract relates or that in the course of his duties as Government servant he has expressed views on all or any other matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

If the arbitrator be the Head of the Centre/Unit

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor-in-office either to proceed with reference himself, or to appoint another person as arbitrator, or

(ii) In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Centre/Unit to appoint another person as arbitrator.

If the arbitrator be a person appointed by the Head of the Purchase Office

In the event of his dying, neglecting or refusing to act or resigning or being unable to act, for any reason, it shall be lawful for the Head of the Centre/Unit either to proceed with the reference himself or appoint another person as arbitrator in place of the outgoing arbitrator.

Subject as aforesaid the Arbitration & Conciliation Act 1996 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this Clause. The Arbitrator shall have the power to extend with the consent of the purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during arbitration proceedings.

In the event of any dispute or difference relating to the interpretation and application for the provisions of the Contracts, such dispute or difference shall be referred by either party to Arbitration of one of the Arbitrations in the Department of Public Enterprises. The Arbitration Act 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute provided however any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Govt. of India. The parties to the dispute will share equally, the cost of arbitration as intimated by Arbitrator.

18. COUNTER TERMS AND CONDITION OF SUPPLIERS :

Where counter terms and conditions printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

19. SECURITY FOR PURCHASE OF MATERIALS :

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

3. GENERAL TERMS & CONDITONS (WITH WARRANTY)

1. 10.Security deposit : You should submit Bank Guarantee (Rs.200/- stamp paper) for 3% order value (DOS:PM:09 format enclosed) from a Nationalised/Scheduled bank valid for 2 months beyond the date of completion of order along with order acknowledgement. This security deposit without any interest thereon shall be returned to the Contractor on successful completion of the contract or shall be adjusted/forfeited against non-fulfillment of any of the contractual obligations.
2. 11.Warranty: Warranty should be indicated in the quotation if applicable
3. 12.Performance Bank Guarantee: You shall furnish performance Bank Guarantee in Rs.200/-non judicial stamp paper from a Nationalized/Scheduled Bank Equivalent to 3% of the order value which shall be valid beyond 2 months from the expiry of warranty/guarantee period.
4. 13.We would like to have more than one source of supply and the final orders will be given accordingly to the qualified bidders.
5. 16. VSSC-CMSE has a right to cancel the tender without assigning any reason etc.
6. 17. If you are unable to submit offer, the same may be communicated to us before the due date.
7. 18. "If any of the bidders submit any forged or false documents along with the tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders."
8. 19. All Tax invoices issued by suppliers/Service providers on or after July 01,2017 shall invariably bear their GST Registration No.(GSTIN) applicable GST rates and HSN Code. In the absence of which, the invoices shall not be processed for payment.
9. 2.Please keep & confirm the offer validity minimum 90 days from the date of opening of tender.
10. 3.GST extra as applicable as per HSN code. Specify HSN code with applicable GST in your quotation.
11. 6.Delivery term: Our standard delivery term is FOR : CMSE-VSSC. In case of Ex- Works, please indicate packing, forwarding & freight charges up to VSSC, separately. (For more details please see Form No. 19/20/21/22/ 23 attached)

12. 8. 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 / UdyogAdhar/ NSIC Registration Certification along with your offer.

13. 9. Liquidated damages: The delivery period quoted by you and stipulated in the Purchase Order shall be deemed to be the essence of the order and delivery must be completed not later than the dates specified therein as otherwise VSSC shall have the right to recover a sum @ 0.5% of the order value per week/part of a week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay, as the case may be, subject to a maximum of 10% of the order value.

14. (b) 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.

15. (c) 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

16. General Conditions:

1. Payment: Our standard payment term is 100% within 30 days on receipt and acceptance of the item at our site .

4. Please attach your quotation (technical bid) in pdf document

C. Bid Templates

C.1 Technical Bid - Thermography System for NDT of Composite Products

1. Thermography System for NDT of Composites

Item specifications for Thermography System for NDT of Composites

| Sl No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-----------------|---|--------------------|-----------------------|--------|
| 1 | Introduction | Vikram Sarabhai Space Centre (VSSC) is seeking potential sources for the supply of Infrared Thermography System for the Non-Destructive Testing (NDT) of Composites products. The Thermography System quoted shall be from the standard range of production of the firm. | Yes / No / Explain | | |
| 2 | Scope of Supply | Scope of supply consists of supply of Infrared Thermography System with necessary accessories, delivery, installation, performance demonstration, commissioning and training of the supplied system at Composites Entity (CMSE), Vikram Sarabhai Space Centre (VSSC), Vattiyoorkavu, Trivandrum, Kerala, India. The party shall integrate the offered Thermography System to the existing 5-Axes CNC manipulator available at VSSC. | Yes / No / Explain | | |

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|----|----------------------------|---|--------------------|--|--|
| 3 | System Deliverables | The offer shall include the following deliverables: a) Infrared (IR) camera (Cooled) b) Necessary excitation systems to carry out Pulsed, Pulsed-Phase, Transient & Lock-In Thermography. c) Necessary hardware & software for interfacing IR camera, control unit and excitation system and 5-axes manipulator. d) Industrial PC with NDT Control Software Packages for Pulsed, Pulsed-Phase, Transient and Lock-In Thermography. e) Rigid cabinet with wheels / rollers for storing all sub-systems. | Yes / No / Explain | | |
| 4 | IR Camera | Party shall supply a cooled IR camera with provisions for both internal & external triggering which can be utilised for pulsed thermography applications. The details of IR camera are given below. | Yes / No / Explain | | |
| 5 | Detector type | Indium antimonide (InSb) | Yes / No / Explain | | |
| 6 | Spectral Range | 3.0 – 5.0 μm or better | Yes / No / Explain | | |
| 7 | Resolution | 640x512 or better | Yes / No / Explain | | |
| 8 | Detector Pitch | 25 μm or better | Yes / No / Explain | | |
| 9 | Thermal Sensitivity / NETD | 25 mK typical or better | Yes / No / Explain | | |
| 10 | Trigger modes | Trigger In, Record Start, Header Based | Yes / No / Explain | | |
| 11 | Minimum integration time | 300 ns (nominal) | Yes / No / Explain | | |

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|----|---------------------------------------|---|--------------------|--|--|
| 12 | Frame rate (full window) | Adjustable; 0.0015 Hz to 1000 Hz | Yes / No / Explain | | |
| 13 | Dynamic Range | 14 – bit or better | Yes / No / Explain | | |
| 14 | Camera in-built storage | <ul style="list-style-type: none"> • RAM (volatile): 16 GB RAM or better • SSD (non-volatile): 512 GB or more | Yes / No / Explain | | |
| 15 | Motorised Lenses | 17 mm lens, with suitable lens interface | Yes / No / Explain | | |
| 16 | Communication link / Camera Interface | Simultaneous Gigabit Ethernet (GigE Vision), Camera Link / CoaXPress® | Yes / No / Explain | | |
| 17 | Camera Weight | < 7 kg (without lens and handle) | Yes / No / Explain | | |
| 18 | Thermography Software | <p>Camera Software should have in-depth thermal analysis on live and recorded data simultaneously. The software should be compatible with Windows 11 (64-bit) / later versions. SDK Support and MATLAB direct interface shall be available.</p> <p>The software should be with a license to be installed in at least 2 PCs simultaneously as required and should work with perpetual license.</p> | Yes / No / Explain | | |
| 19 | Temperature Calibration | 10°C to 350°C as in single range. Calibration should be traceable to NIST and OEM certificate has to be submitted with offer. | Yes / No / Explain | | |

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| 20 | Service Facility | OEM (Original Equipment Manufacturer) must have direct office in India with calibration checking facility. Camera must be repairable in India. Office address along with contact details, Phone No, Fax No and Email id, should be provided. GST registration details of OEM should also be provided. Details of blackbodies available in India should also to be mentioned in the quotation. | Yes / No / Explain | | |
| 21 | Excitation Systems | Party shall supply excitation systems for Pulsed, Pulsed-Phase, Transient and Lock-In Thermography. | Yes / No / Explain | | |
| 22 | Excitation Systems for Pulsed Thermography | The excitation system for Pulsed Thermography consists of a flash generator and flash hood with flash lamps. The flash generator shall generate high energy flashes of 9.6 kJ (nominal) within a very short time of only a few milliseconds. The flash triggering shall be controlled by the software via a synchronization unit. The details / features of flash generator and flash head are given below. | Yes / No / Explain | | |
| 23 | Flash Power | 6000 W or better | Yes / No / Explain | | |
| 24 | Flash Duration | 0.3 ms (nominal) | Yes / No / Explain | | |
| 25 | Flash Cycle time (100 % energy) | 4 s (nominal) | Yes / No / Explain | | |
| 26 | Flash Outlets | Minimum 2 | Yes / No / Explain | | |

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|----|---|---|--------------------|--|--|
| 27 | Flash Controls & Flash Triggering | Shall have provision to control manually or through software | Yes / No / Explain | | |
| 28 | Flash Head | Flash Power: 6000 W or better Solid full metal housing Swivel-tilt device for easy adjusting Focusing unit for focusing the flash energy on the part to be inspected Cable length: 20 m (min.) The flash lamps shall be provided with proper ventilations and provision for cooling. | Yes / No / Explain | | |
| 29 | Excitation Systems for Transient and Lock-in Thermography | The excitation system for Transient and Lock-in Thermography consists of heat lamps (Halogen lamp modulated 2 kW @ 230 V [2 Nos.]) to create an appropriate, strong and fast response from defects. The lamps shall be provided with proper ventilations. The heat lamps shall be provided with proper reflectors for concentrating light intensity for spot-heating effect. The power output of the lamp shall be controlled from 0 % to 100 % either manually or through the control software. Cable length required for power cord and control cable shall be 20 m (min.) The party shall integrate the excitation systems with IR Camera to the existing 5-Axes CNC manipulator available at VSSC. | Yes / No / Explain | | |

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| 30 | Hardware & Software Interface | Party shall supply necessary hardware & software for interfacing IR camera, control software and excitation systems to carry out Pulsed, Pulsed-Phase, Transient and Lock-in Thermography. The hardware interface shall be based on standard components. So that, any expansion of the hardware functions or any adaption to special requirements can be performed in future. | Yes / No / Explain | | |
| 31 | Industrial PC with NDT Control software | Party shall supply an Industrial PC with NDT Control Software Packages for Pulsed, Pulsed-Phase, Transient and Lock-In Thermography. The industrial PC shall be mounted on the rigid case with rollers. The details of the industrial PC are given below. | Yes / No / Explain | | |
| 32 | Processor | Intel i9 (13th or latest generation) / Xeon Gold Series Processor / equivalent. | Yes / No / Explain | | |
| 33 | RAM | 64 GB or better. | Yes / No / Explain | | |
| 34 | Hard disk (SSD) | 1 TB or better. | Yes / No / Explain | | |
| 35 | Graphics Card | 32 GB Nvidia / better. | Yes / No / Explain | | |
| 36 | Operating System | Windows 11, 64-bit / later versions. | Yes / No / Explain | | |
| 37 | Display | FHD screen with 32" nominal or better. | Yes / No / Explain | | |
| 38 | Additional Storage | 2 TB Hard Disk. | Yes / No / Explain | | |
| 39 | MS Office | MS office 2021 or above. | Yes / No / Explain | | |

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| 40 | NDT control & analysis software | The supplied NDT control & analysis software package shall have perpetual licenses and shall have following modules or capability for: | Yes / No / Explain | | |
| 41 | NDT Control & analysis Software Module 1 | <p>a) Non-Destructive Inspection (NDI) by Infrared Image Analysis.</p> <p>b) Measurement Techniques: Supports Lock-in, Pulsed, Pulsed-Phase and Transient Thermography.</p> <p>c) Excitation Sources: Compatible with optical excitation (lamps), optical pulse excitation (flash lamps).</p> <p>d) Image Handling: Functions for loading and storing image sequences and single images.</p> <p>e) Temperature Plots: Display of temperature plots for measurements.</p> <p>f) Camera and Excitation Control: Various settings for controlling the camera and excitation sources, and for recording and pre-processing infrared image sequences.</p> <p>g) Data Management: Storage of all measurement parameters and settings in workspace files.</p> | Yes / No / Explain | | |

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| 42 | <p style="text-align: center;">NDT control & analysis software Module 2</p> | <p>h) Pulsed, Pulsed-phase and Transient Thermography: i) Evaluation Methods: Supports advanced methods such as Max. contrast method, e-function approximation method, sqrt approximation method, and pulsed-phase analysis. ii) Measurement Arrangements: Supports reflection and transmission arrangements. iii) Phase and Amplitude Calculation: Calculates phase and amplitude, displaying results as images for easy defect identification. iv) Result Views: Allows display of an unlimited number of result views for direct comparison of results achieved with different algorithms and parameters. v) Result Toggling: Easy toggling between different result images. vi) Export Functions: Export to MATLAB, Excel, ASCII, and various image formats (bmp, jpg etc.).</p> | Yes / No / Explain | | |
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| 43 | <p style="text-align: center;">NDT control & analysis software Module 3</p> | <p>i) Lock-In Thermography i) Evaluation Methods: Supports advanced methods such as Single frequency Fourier transformation, harmonic approximation, and harmonic approximation with an analytic approach. ii) Measurement Arrangements: Supports reflection and transmission arrangements. iii) Online Measurements: Functions for Online Lock-in measurements with harmonic and burst excitation using heat sources, ultrasound, and eddy current. iv) FFT/Lock-In Thermography: Functions for FFT/Lock-in Thermography with excitation by heat sources. v) Phase and Amplitude Calculation: Calculates phase and amplitude, displaying results as images for easy defect identification. vi) Result Views: Allows display of an unlimited number of result views for direct comparison of results achieved with different algorithms and parameters. vii) Result Toggling: Easy toggling between different result images. viii) Export Functions: Export to MATLAB, Excel, ASCII, and various image formats (bmp, jpg etc.).</p> | Yes / No / Explain | | |
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| 44 | Additional Software License | Party shall provide an additional perpetual software license for offline assessment of thermography data. | Yes / No / Explain | | |
| 45 | Laptop for Post-Processing of Thermography Data | Party shall also supply a rugged laptop for post processing of the thermography data. Offered laptop shall be rated for dust, vibration, shock etc. as per appropriate standards. Certificates for the same shall be supplied along with the system. The specifications of the laptop are given below. | Yes / No / Explain | | |
| 46 | Processor for laptop | Intel i9 (13th or latest generation) / Xeon Gold Series Processor / equivalent. | Yes / No / Explain | | |
| 47 | RAM for laptop | 64 GB or better. | Yes / No / Explain | | |
| 48 | Hard disk (SSD) for laptop | 1 TB or better. | Yes / No / Explain | | |
| 49 | Graphics Card for laptop | 32 GB Nvidia / better. | Yes / No / Explain | | |
| 50 | Operating System for laptop | Windows 11, 64-bit / later versions. | Yes / No / Explain | | |
| 51 | Display for laptop | FHD screen with 14" nominal or better. | Yes / No / Explain | | |
| 52 | MS Office for laptop | MS office 2021 or above. | Yes / No / Explain | | |
| 53 | Rigid Cabinet with wheels / Rollers | Party shall supply a rigid cabinet with wheels / rollers for storing all sub-systems. Cabinet case shall be of aluminium construction. It shall have space for mounting industrial PC with monitor, flash generator, hardware interface etc. | Yes / No / Explain | | |

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| 54 | Delivery Schedule | The offer shall clearly indicate the delivery schedule for the offered items. Items shall be delivered within 10 months from the receipt / acceptance of Purchase Order by party. Pre-Delivery Inspection (PDI) either through online / offline mode will be carried out by VSSC at OEM factory before shipment. The system capability in compliance with the technical specifications shall be demonstrated during PDI. | Yes / No / Explain | | |
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| 55 | Installation, Commissioning & Training | <p>Installation and commissioning of the system shall be carried out by the party at VSSC. All features and functional requirements shall be demonstrated in compliance with purchase order specifications in full. The system will be accepted based on the successful demonstration of all stated features / capabilities of the system. The components to be tested will be provided by VSSC. The party shall integrate the offered Thermography System to the existing 5-Axes CNC manipulator available at VSSC. The details of CNC manipulator will be provided at a later stage. Minimum 5 days training on all the features of the system including operation and maintenance aspects shall be imparted to VSSC personnel at CMSE, VSSC, Vattiyoorkavu, Trivandrum, Kerala, India</p> | Yes / No / Explain | | |
| 56 | Warranty | <p>Warranty shall be provided for minimum period of two years from the date of commissioning and acceptance at VSSC, Vattiyoorkavu, Trivandrum, Kerala, India for the items under the scope of supply. Warranty shall be provided by OEM only.</p> | Yes / No / Explain | | |

Document : Specification Document

Common Specifications (Applicable for all items)

| Sl No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|--|--------------------|-----------------------|--------|
| 1 | General Requirement – 1 | Offer shall be from Original Equipment Manufacturer (OEM) or by authorised Indian agent only. Authorisation letter shall be attached along with the offer. | Yes / No / Explain | | |

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|---|-------------------------|---|--------------------|--|--|
| 2 | General Requirement – 2 | <p>The party should have supplied and successfully commissioned at least 3 similar systems. Please attach the testimonials for the same with customer contact details, phone number and email id. This list shall be produced during the bid stage itself. Otherwise, the party has to demonstrate the capability of the system on VSSC specimens with built-in defects, free of charge during technical bid evaluation stage. During test, no surface modification or spray paint, etc. is permitted on the surface of the test specimens. During demonstration, party shall demonstrate the detectability of 10 mm x 10 mm debond & delamination in sandwich construction of 3 mm thick face skins and 5 mm x 5 mm delamination in laminated construction of 3 mm thick. The defects in both constructions will be implanted at varying depths. Minimum 2 specimens each of both constructions shall be tested. The test results will be reviewed by VSSC for approval.</p> | Yes / No / Explain | | |
| 3 | General Requirement – 3 | <p>Warranty shall be provided for minimum period of two years from the date of commissioning and acceptance at VSSC, Vattiyoorkavu, Trivandrum, Kerala, India for the items under the scope of supply. Warranty shall be provided by OEM only.</p> | Yes / No / Explain | | |

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| 4 | General Requirement – 4 | Detailed manuals, instructions and data sheets pertaining to the offered items are to be provided in the form of hard copy or soft copy in English language. | Yes / No / Explain | | |
| 5 | General Requirement – 5 | The offered equipment should be fully compatible with Indian power supply and meet the electrical safety standards. Power Supply: 240 ±10% V AC, single phase, 50Hz. | Yes / No / Explain | | |
| 6 | General Requirement – 6 | The parties participating in the tender have to submit their offers in two-parts i.e., Technical Bid (including price bid with prices masked) and Price Bid separately in E-Procurement portal of VSSC. | Yes / No / Explain | | |
| 7 | General Requirement – 7 | During part 1 technical bid, the party has to fill the compliance matrix for all the specification in the format given. Descriptive statements to be provided, as applicable, in the compliance check list. Relevant proof/supplementary document for the compliances are to be furnished and shall be referenced to the technical bid. | Yes / No / Explain | | |

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| 8 | General Requirement – 8 | If required, the party has to demonstrate the capability of the system on VSSC specimens with built-in defects during technical bid evaluation, free of charge. During test, no surface modification or spray paint, etc. is permitted on the surface of the test specimens. During demonstration, party shall demonstrate the detectability of 10 mm x 10 mm debond & delamination in sandwich construction of 3 mm thick face skins and 5 mm x 5 mm delamination in laminated construction of 3 mm thick. The defects in both constructions will be implanted at varying depths. Minimum 2 specimens each of both constructions shall be tested. The test results will be reviewed by VSSC for approval. | Yes / No / Explain | | |
| 9 | General Requirement – 9 | Technical justifications for deviations/variations/modifications proposed are to be clearly spelt out. | Yes / No / Explain | | |
| 10 | General Requirement – 10 | Technical leaflet/brochure (in English) and write-up (in English) of the proposed model of the system must be furnished by the party along with the quotation. | Yes / No / Explain | | |

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|----|--------------------------|--|--------------------|--|--|
| 11 | General Requirement – 11 | Detailed system cost break-up should be given in Part 2 which is the Price Bid. The price bid format is given in table 1 of specification document. Separate price details for AMC, Essential Spares & accessories etc. are also to be provided. Essential spares & accessories, AMC charges will not be considered for arriving L1 party. | Yes / No / Explain | | |
| 12 | General Requirement – 12 | Post-warranty Non-Comprehensive AMC (including two Preventive Maintenance visits per year and unlimited break-down calls) shall be quoted for at least three years after warranty period of two years. | Yes / No / Explain | | |
| 13 | General Requirement – 13 | Software updates, if any, shall be provided free of cost during warranty and post-warranty AMC periods. | Yes / No / Explain | | |
| 14 | General Requirement – 14 | Party from abroad shall have a local representative in India. Trained Engineers shall be available in India to attend after sales service. | Yes / No / Explain | | |
| 15 | General Requirement – 15 | All other terms and conditions as per VSSC norms. | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. Price Split-up for each sub-system (To be submitted along with Price Bid Only) (Price Bid Related)

2. Offered System Details / Technical Brochure

3. Technical Compliance Statement

4. Please confirm whether you can comply with all the technical specification as states in

Annexure

5. This is a two-part tender, Technical & Commercial part (Part I) and Price Part (Part II) shall be uploaded separately. The tenderers should not attach any documents containing Price information along with Technical & Commercial Bid (Part I).

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | The party shall integrate the offered Thermography System to the existing 5-Axes CNC manipulator available at VSSC. | Yes / No / Explain | |
| 2 | Party shall supply Infrared Thermography System with necessary accessories at Composites Entity (CMSE), Vikram Sarabhai Space Centre (VSSC), Vattiyookavu, Trivandrum, Kerala, India. | Yes / No / Explain | |
| 3 | Delivery Period | Yes / No / Explain | |
| 4 | Delivery Terms | Yes / No / Explain | |
| 5 | In case of Ex-Works, please indicate packing, forwarding & freight charges up to VSSC, separately | Yes / No / Explain | |
| 6 | Liquidated Damage - As detailed in Annexure | Yes / No / Explain | |
| 7 | Taxes and Duties if any (Concessional rate applicable for GST) | Yes / No / Explain | |
| 8 | Payment Terms [within 30 days after receipt and acceptance of item for indigenous] | Yes / No / Explain | |
| 9 | Warranty - 2 years | Yes / No / Explain | |
| 10 | Performance Bank Guarantee - 3% of the order value | Yes / No / Explain | |

| | | | |
|----|---|--------------------|--|
| 11 | Security Deposit (Where ever the offer value is Rs 5.00 Lakhs and above) -You should submit Security Deposit @ 3% of order value in the form of insurance Security Bonds, Account Payee Demand Drafts, Fixed Deposit Receipt, Bank Guarantee (Rs.200/-stamp paper) in the prescribed format (DOS:PM:07) from a Nationalized/ Scheduled Bank valid for 2 Months beyond the date of completion of order obligation along with order acknowledgement. Documentary proof of Online payment also acceptable as Security Deposit. This security deposit without any interest thereon shall be returned to the Supplier on successful completion of the Purchase Order or shall be adjusted/forfeited against non-fulfillment of any of the contractual obligations. | Yes / No / Explain | |
| 12 | Combined Bank Guarantee-3% of offer value).[Supplier at their option can submit combined BG for SD and warranty). | Yes / No / Explain | |
| 13 | Port of Despatch & Mode of despatch | Yes / No / Explain | |
| 14 | Quote Validity : Minimum 180 days [for Two Part Tender] | Yes / No / Explain | |
| 15 | Name and Address to Which order to be placed. Please include contact details like mobile no. and email id | Yes / No / Explain | |
| 16 | Any other conditions | Yes / No / Explain | |
| 17 | Percentage of local content as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|---|-----------|------------|----------|-------------|--------|
| 1 | Thermography System for NDT of Composites | 1.00 Sets | | - | | |

Common charges (Applicable for all items)

| | |
|-------------------------|--|
| P&F (Amount) | |
|-------------------------|--|

| | |
|------------------------------------|--|
| Freight (Amount) | |
| Discount (Amount) | |
| Any Other Charges (Amount) | |