

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

Tender for X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing Digital radiography system

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400140301 dated 10-07-2024

A. Tender Details

Tender No :	VSSC/PURCHASE UNIT III (SPRE)/VS202400140301
Tender Date :	10-07-2024
Tender Classification:	GOODS
Purchase Entity :	PURCHASE UNIT III (SPRE)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing Digital radiography system

This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 16/09/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the TechnoCommercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.

Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate break-up of components of main equipment, individual accessories and spares as desired. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

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

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

False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule

151 (iii) of the General Financial Rules along with such other actions as may be permissible under law. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

A.1 Tender Schedule

Bid Submission Start Date :	09-07-2024 14:00
Bid Clarification Due Date :	22-07-2024 11:00
Bid Submission Due Date :	28-08-2024 10:00
Bid Opening Date :	28-08-2024 11:01
Price Bid Opening Date :	31-10-2024 11:00

B. Tender Attachments

NA

Instructions To Vendors

1. Specific Terms and Conditions to Tender (MII Compliant)

1. (I) Please quote applicable GST separately.

2. (II) Our standard delivery term is FOR, VSSC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.

3. (III) Our standard payment term is 100% within 30 days after receipt and acceptance of the items at our site (after installation and commissioning in cases where installation and commissioning is required).

4. (IV) Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

5. (V) Performance Bank Guarantee: Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.

6. (VI) Security Deposit: Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor. In case if Security Deposit is submitted and the contractor fails to execute

the order, then the security deposit will be forfeited.

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

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

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

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

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

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

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

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

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

16. (XVI) Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

17. (XVII) Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net

domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.

18. (XVIII) The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself.

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

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

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

22. (XXII) Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is greater than 1 or not a package basis): i. If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. ii. If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder. iv. In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor. v. In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of

order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price. vi. Regarding MSEs (Indian vendors): a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender. b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy. c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.

23. Purchase Preference Policy:- Goods/Works which are not divisible in nature (required quantity is 1 or on a package basis):

(i). If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. (ii). If L1 bid is not from a 'Class-I local supplier', then, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). (iii). In case such lowest eligible 'Class-I local supplier' fails to match the L1 price , the next higher 'Class-I local supplier' within the margin of purchase 'preference shall be invited to match the L1 price and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases the contract shall be placed on original L1 bidder. (iv). In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor.

2. 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.

3. 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.

4. 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.

5. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

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

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

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

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

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

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

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer. (d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such

options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

3. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

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

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

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

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

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

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

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

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

8. GUARANTEE & REPLACEMENT:

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

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

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

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

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

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

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

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

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

12. REJECTED STORES:

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

freight being payable by the Contractor at actuals.

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

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

15. TERMS & CONDITIONS OF TENDER

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

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

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

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

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

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

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

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

C. Bid Templates

C.1 Technical Bid - X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing Digital radiography system

1. X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing 450kV Digital radiography system

Item specifications for X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing 450kV Digital radiography system

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing 450kV Digital radiography system for 3D images	Scope of supply consists of supply of software module including workstation PC, high-resolution monitor and Network Assisted Storage (NAS) device for CT reconstruction & Volume Visualization with post-processing functionalities, Delivery, Installation, Performance Demonstration, Commissioning and Training of the supplied software at Nondestructive testing facility, Rocket Propellant Plant ,SPRE,VSSC Trivandrum, Kerala, India. The supplied software shall be capable of generating CT slices and 3D volume rendering with its associated post-processing functionalities such as the conversion of the CT data to CAD models, RVE (Representative Volume Element) generation, etc., as mentioned in subsequent Sections. The supplier shall demonstrate the CT reconstruction and Volume visualization and associated capabilities of the supplied Software and work station PCs / Monitors on the available Digital Radiography system with a suitable job given by NDTF/RPP.	Yes / No / Explain		
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Document : Detailed specification and supply conditions

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	<p>Scope of supply consists of supply of software module including workstation PC, high-resolution monitor and Network Assisted Storage (NAS) device for CT reconstruction & Volume Visualization with post-processing functionalities, Delivery, Installation, Performance Demonstration , Commissioning and Training of the supplied software at Nondestructive testing facility, Rocket Propellant Plant ,SPRE,VSSC Trivandrum, Kerala, India.</p>	<p>The supplied software shall be capable of generating CT slices and 3D volume rendering with its associated post-processing functionalities such as the conversion of the CT data to CAD models, RVE (Representative Volume Element) generation, etc., as mentioned in subsequent Sections. The supplier shall demonstrate the CT reconstruction and Volume visualization and associated capabilities of the supplied Software and work station PCs / Monitors on the available Digital Radiography system with a suitable job given by NDTF/RPP.</p>	<p>Yes / No / Explain</p>		

2	The CT system capable of following capabilities :	<p>1. Visualization of the reconstructed data in 3D volume viewing and analysis packages.</p> <p>2.Surface Extraction & segmentation and classification of voxels based on grey level /shape</p> <p>3. Porosity / Inclusion/cracks/delamination analysis ; Wall thickness measurements ; Actual / Nominal Comparison ; Composite products analysis in a layer by layer mode including fibre orientation</p> <p>4. Conversion of CT data to CAD and Finite Element models. ; Documentation of results</p>	Yes / No / Explain		
3	The supplier shall demonstrate the CT reconstruction and Volume visualization and associated capabilities of the supplied Software and work station PCs / Monitors on the available Digital Radiography system with a suitable job given by NDTF/RPP.	Scope of supply consists of supply of software module including workstation PC, high-resolution monitor and Network Assisted Storage (NAS) device for CT reconstruction & Volume Visualization with post processing functionalities	Yes / No / Explain		
4	The party shall provide perpetual license for all the software modules.	License for all the software modules	Yes / No / Explain		

5	Reconstruction module shall support cone beam, fan beam, parallel beam and planar CT. Provisions for the automatic scan geometry corrections (detector shift and rotation axis tilt).	--As per the spec.	Yes / No / Explain		
6	Improves the image quality using the scatter and beam hardening corrections. Reduces metal and ring artifacts. Reconstruct large parts by using field of view extensions.	--As per the spec.	Yes / No / Explain		
7	Reconstruction based on Region of Interest (ROI) Provides slice and volume previews for faster evaluation of CT measurements . Provision for the use of one or multiple GPUs to speed up calculations by incorporating Open CL.	--As per the spec.	Yes / No / Explain		

8	Visualization module should have provisions for	a) Simultaneous rendering of Front, Side, Top & 3D volume views. b) Easy opacity and transparency manipulation. c) Synchronized volume slicing at arbitrary angles, radial and spherical cropping in 3D, choice of rendered views, etc. d) Create animation data from the volume data. e) Filtering of Volume Data. f) Generation of 3D volumes based on Region of Interest (ROI).	Yes / No / Explain		
9	Surface extraction module shall separate data sets into individual parts (based on shape / voxel grey level) that may consist of different components, materials, etc. using manual selection and drawing tools as well as semi-automated tools.	--As per the spec.	Yes / No / Explain		
10	Surface extraction shall have provision for	a) Direct processing of volume data. b) Analysis based on ROI c) Color coded visualization of analysis result.	Yes / No / Explain		

11	Porosity / Inclusion analysis module shall have provision for	<p>a) Calculating various parameters for each defect such as defect position, defect size and geometry, gap to closest defect, distance of each defect to a reference surface etc.</p> <p>b) Calculates the overall percentage of porosity and visualizes it in a defect volume histogram.</p> <p>c) Colour coding of pores, inclusion etc. according to their size / volume.</p>	Yes / No / Explain		
12	Wall thickness analysis module shall have provision for	<p>a) Direct processing of volume data. b) Analysis based on ROI</p> <p>c) Colour coded visualisation of wall thickness variations.</p>	Yes / No / Explain		
13	Actual / Nominal comparison module shall allow,	<p>a) Geometric comparison of voxel, mesh and CAD data.</p> <p>b) Direct comparison of volume datasets.</p> <p>c) Import CAD models for comparison with CT scan data.</p> <p>d) Analysis based on ROI.</p> <p>e) Colour coded visualisation of analysis result.</p>	Yes / No / Explain		

14	Fibre composite material analysis module shall have provision for	<p>a) Calculating the local fibre orientation and local fibre volume fraction.</p> <p>b) Calculating the global fibre orientation distributions and global volume fractions.</p> <p>c) Displaying local fiber orientation in color code or as vectors or tensors. d) Producing line plots of the individual components of the orientation tensor in order to easily compare nominal and actual values.</p> <p>e) Analysis based on ROI.</p> <p>f) Colour coded visualisation of analysis result.</p> <p>g) Exporting of the analysed material properties for use in third party simulation software (ANSYS, CATIA, ABACUS, NASTRAN, PATRAN etc.).</p>	Yes / No / Explain		
15	Volume meshing module shall create accurate and high-quality volume meshes from the CT data which can be used for FEM simulations in third party software. This module shall have provision for	<p>a) Option to create a finer mesh for a particular ROI.</p> <p>b) Exporting of the volume mesh to third party simulation software (ANSYS, CATIA, ABACUS, NASTRAN, PATRAN etc).</p>	Yes / No / Explain		
16	Reverse engineering module shall convert CT data into CAD models that can be used in CAD systems.	This module shall have provision for exporting of the CAD models to third party simulation software (ANSYS, CATIA, ABACUS, NASTRAN, PATRAN etc.).	Yes / No / Explain		

17	Reporting module shall have provision for	<p>a) Export images (color-coded in 3D and 2D), histograms, and data tables in common file formats (Excel, Word, Pdf) to work with them in other applications.</p> <p>b) Export all results in a standardized folder and file structure.</p> <p>c) Generate reports on all analyses linked to an object.</p> <p>d) Define rules and generate images or annotations of all defects exceeding a certain size.</p>	Yes / No / Explain		
18	Party shall supply Workstation Computers and Network Assisted Storage (NAS) device for CT reconstruction and Post-Processing of CT Data	<p>1) High End Workstation PC based on the current Intel Xeon processor or equivalent technology</p> <p>a) Multi CPU and Multi-Core technology.</p> <p>b) GPU Processing: High end graphics processor optimized for Computed tomography reconstruction.</p> <p>2) Network Assisted Storage (NAS) device.</p>	Yes / No / Explain		
19	Details of Workstation Computers and Network Assisted Storage (NAS) device are given below.	--As per the spec.	Yes / No / Explain		
20	<p>1. CPU</p> <p>2. No of Cores</p> <p>3. RAM</p> <p>4. Hard drive</p>	<p>1. 2 x Intel Xeon CPU or equivalent</p> <p>2. 2 x 20 Core</p> <p>3. 384GB shall be supplied in 128x3 format</p> <p>4. Primary shall be 2TB SSD (in addition to 4TB HDD)</p>	Yes / No / Explain		

21	5. Graphics card 6. Operating system 7. Display monitor 8. Interfaces 9. Key board 10 Mouse 11. UPS 12. Warranty	5. 4 x 16 GB 6. Win 10 Pro 64 Bit or above 7. Table top monitor 24/27"size full HD, with IPS panel 8. Gigabit Ethernet & USB Ports 9. USB Keyboard 10. USB Optical mouse 11. 2 kVA online UPS, 0.7 pf (min) and 30 min backup 12. 2years warranty for UPS and Work Station	Yes / No / Explain		
22	Specification for NAS device : 1. Processor 2.Processor speed	1.Intel i7 (latest generation) / Intel Xeon or better equivalent 2. 3.3 GHz	Yes / No / Explain		
23	3Standard Memory 4Total Hard Drive Capacity 5Interface 6Key board for NAS 7Mouse for NAS 8UPS 9Warranty	3. 16 GB 4. 64TB 5. Gigabit Ethernet & USB 3.0 ports 6. USB Key board 7. USB Optical mouse 8. 1kVA online UPS, 0.7 pf (min) and 30 min backup 9. 2years warranty for UPS and NAS	Yes / No / Explain		
24	The offer shall clearly indicate the delivery schedule for the offered items.	The offer shall clearly indicate the delivery schedule for the offered items. The software modules and workstation PC / NAS device shall be delivered and demonstration of all features in compliance with the technical specifications shall be carried out within 4 months from the receipt of purchase order.	Yes / No / Explain		

25	Software installation and commissioning shall be carried out by the party at VSSC.	<p>1. All features and functional requirements shall be demonstrated in compliance with technical specifications in full. The supplier has to ensure minimum 5 days training on all the features of the Computed Tomography Reconstruction and Volume Visualization Modules to the VSSC personnel after the successful installation of the CT system on the available Digital Radiography system with a suitable job at NDTF/RPP, VSSC.</p> <p>2. Party shall mentioned in the quote for any prerequisites required from the user end for the software installation.</p>	Yes / No / Explain		
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26	General conditions :	<p>a) Offer shall be from Original Equipment Manufacturer (OEM) or authorized partner or agent or dealer only.</p> <p>b) Warranty shall be provided for minimum period of two years from the date of commissioning and acceptance at NDTF/RPP/VSSC, Trivandrum, Kerala, India for the items under the scope of supply. Warranty shall be provided by the supplier of the system only.</p> <p>c) Party shall provide software updates, if any, for free of cost during the warranty period.</p> <p>d) Party shall separately quote for 5 years (after the completion of warranty period) AMC for software module updations including workstation and NAS device for CT reconstruction & Volume Visualization with post-processing functionalities. The AMC shall include 2 preventive maintenance per year and break down visits on per call basis for the software, workstation PCs, NAS device and UPS Systems</p> <p>d) Party shall provide technical support for the offered software free of cost during the warranty period and subsequently during the active AMC period.</p> <p>e) Detailed manuals, instructions and data sheets pertaining to the offered software modules are to be provided in the form of hard copy or soft copy in English language.</p>	Yes / No / Explain		
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		<p>Backup copy of the entire system software shall be provided.</p> <p>f) Backup copy of the device drivers and operating systems of workstation devices and NAS device pertaining to the offered items shall be provided.</p> <p>g) Other procurement / finance terms and conditions as per present VSSC norms.</p>			
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Supporting Documents required from Vendor

- 1. Detailed specification of the system with catalogue of workstation computers and NAS devices**
- 2. Party shall quote for 5 years AMC Charges for the entire system including softwares and workstation (after the completion of warranty period) (Price Bid Related)**
- 3. Quote for the Computed Tomography Reconstruction and Volume Visualization Modules (software part) / Workstation Computers and Network Assisted Storage (NAS) device for CT reconstruction and Post-Processing of CT Data shall quote separately. (Price Bid Related)**
- 4. Self declaration with respect to local content(Make in India policy)**

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Other procurement / finance terms and conditions as per present VSSC norms.	Yes / No / Explain	
2	The AMC shall include 2 preventive maintenance per year and break down visits on per call basis for the software, workstation PCs, NAS device and UPS Systems	Yes / No / Explain	
3	Party shall separately quote for 5 years (after the completion of warranty period) AMC for software module updations including workstation and NAS device	Yes / No / Explain	
4	Party shall provide software updates, if any, for free of cost during the warranty period.	Yes / No / Explain	
5	Warranty shall be provided for minimum period of two years from the date of commissioning and acceptance at NDTF/RPP/VSSC, Trivandrum, Kerala, India . Warranty shall be provided by OEM only.	Yes / No / Explain	
6	The supplier has to ensure minimum 5 days training on all the features of the Computed Tomography Reconstruction on the available Digital Radiography system with a suitable job	Yes / No / Explain	
7	All features and functional requirements shall be demonstrated in compliance with technical specifications in full.	Yes / No / Explain	
8	Software installation and commissioning shall be carried out by the party at VSSC.	Yes / No / Explain	
9	Warranty	Yes / No / Explain	
10	Training	Yes / No / Explain	
11	Taxes and other costs,	Yes / No / Explain	

12	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
13	Delivery Terms (FOR VSSC)	Yes / No / Explain	
14	Delivery Period (Pls mention the delivery period)	Yes / No / Explain	
15	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	
16	Warranty (2 years)	Yes / No / Explain	
17	Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited).	Yes / No / Explain	
18	Payment Term: (100% within 30 days after receipt, successful installation, commissioning and acceptance of item at our site and on submission of PBG). 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	

19	<p>Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content:</p> <p>a) Equal to or more than 50% : Class-I local supplier.</p> <p>b) More than 20% but less than 50% : Class-II local supplier.</p> <p>c) Less than or equal to 20% : Non-local supplier.</p> <p>Mention your category.</p>	Yes / No / Explain	
20	<p>Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.</p>	Yes / No / Explain	
21	<p>The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC (minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.</p>	Yes / No / Explain	
22	<p>PO Placement Address (with Name and Contact Details of sales person concerned).</p>	Yes / No / Explain	
23	<p>Any Other Terms</p>	Yes / No / Explain	
24	<p>VSSC 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. Confirm Acceptance.</p>	Yes / No / Explain	
25	<p>Offer Validity (180 days)</p>	Yes / No / Explain	
26	<p>NOTE: This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately.</p>	Yes / No / Explain	

27	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 pricebid shall lead to unconditional rejection of the tender. Please make note of the same.	Yes / No / Explain	
28	1) Last minute clarification on tenders will not be entertained. 2) This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted. 3) Your quotation with details of items being supplied, Split up cost if applicable, detailed terms & conditions shall be mandatory uploaded. 4) Read the clauses regarding Make In India Purchase Preference Policy, which is mentioned in the Tender Documents. Give the necessary compliance in the relevant field in the Vendor Specified Terms. 5) Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. 6) The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected. 7) Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	X-ray Computed Tomography Reconstruction and Volume Visualization Modules compatible with the existing 450kV Digital radiography system	1.00 Unit		-		

Common charges (Applicable for all items)

P&F Charges	
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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	