

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	12-06-2026 16:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	12-06-2026 16:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Science And Technology
विभाग का नाम/Department Name	Department Of Science And Technology (dst)
संगठन का नाम/Organisation Name	Sree Chitra Tirunal Institute For Medical Sciences And Technology (sctimst)
कार्यालय का नाम/Office Name	Thiruvananthapuram
कुल मात्रा/Total Quantity	2
वस्तु श्रेणी /Item Category	Echo Cardiography Scanning Machine (V2) (Q2)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
वर्षों के अनुभव के लिए एमएसई को छूट प्राप्त है / MSE Relaxation for Years Of Experience	Yes Complete
वर्षों के अनुभव के लिए स्टार्टअप को छूट प्राप्त है / Startup Relaxation for Years Of Experience	Yes Complete
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Past Performance,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)

बिड विवरण/Bid Details	
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	5
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
विगत प्रदर्शन / Past Performance	30 %
बिड से रिवर्स नीलामी सक्रिय किया/ Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/ RA Qualification Rule	H1-Highest Priced Bid Elimination
व्यापक रखरखाव शुल्क आवश्यक / Comprehensive Maintenance Charges Required	Yes
बिड का प्रकार/ Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय / Time allowed for Technical Clarifications during technical evaluation	3 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/ Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
अनुमानित बिड मूल्य / Estimated Bid Value	30310000
मूल्यांकन पद्धति/ Evaluation Method	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / Financial Document Required	Yes
मध्यस्थता खंड/ Arbitration Clause	No
सुलह खंड/ Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	700000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	5.00

ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).

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(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने है। एमएसई कटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

लाभार्थी /Beneficiary :

DIRECTOR, SCTIMST

Thiruvananthapuram, Department of Science and Technology (DST), Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Ministry of Science and Technology
(Director, Sctimst)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई खरीद वरीयता / MII Purchase Preference

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में है / Purchase Preference to MII sellers available upto price within L1+X%	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	No, we have got exemption from competent authority as defined in Dept of Expenditure OM dated 28.5.2020 : DOE Order (as amended and applicable time to time)

एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within L1+X%	15

सूक्ष्म और लघु उद्यम को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MSE purchase preference	25
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1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
3. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
4. Preference to Make In India products (For bids > 200 Crore) (can also be used in Bids < 200 Crore but only after exemption by competent authority as defined in Deptt of Expenditure OM dated 28.5.2020): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.
5. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
6. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.
7. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or

similar Category Products for 30% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

8. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

Pre Bid Detail(s)

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
29-05-2026 11:00:00	Mini Conference Hall, 3rd Floor, AMCHSS, SCTIMST. Queries if any should sent to the email id "purchase2@sctimst.ac.in" on or before 28.05.2026.

Echo Cardiography Scanning Machine (V2) (2 pieces)

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 25% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

[* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification](#)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
Types of Probes & Features	Cardiac and Vascular Probes Configuration	TTE Phased Array, TTE Matrix Array, TEE Phased Array, TEE Matrix Array, Linear Probe
	TTE(Transthoracic) Probe Type	Adult, Pediatric, Neonatal
	TEE Adult Probe biplane and Multiplane frequency, in MHz	2 to 7.5 MHz (± 2), Not Applicable
	TEE Pediatric Probe Required	Yes, No
	TEE Pediatric Probe frequency, in MHz	3 to 8 MHz (± 2), Not Applicable
	Linear Probe for linear/vascular applications required	Yes, No
	Adult/Pediatric Linear probe frequency in MHz	5 to 14 MHz (± 2), 5 to 10MHz (± 2), Not Applicable
	No of Adult TTE Probes Required	1, NA
	No of Pediatric TTE Probes Required	1, NA

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	No of Neonatal TTE Probes Required	1, NA
	No of Adult TEE Probes Required	1, NA
	No of Pediatric TEE Probes Required	1, NA
	No of Pediatric 3D/4D TEE Probes Required	1, NA
	No of Neonatal TEE Probes Required	1, NA
	No of Adult/pediatric Linear Probes supplied	1, NA
	Dedicated 3D/4D volume imaging for cardiology TTE ad TEE	Yes, No
	Live 3 D imaging in color doppler system	Yes, No
	Colour Doppler system with all application packages ,Quad loop for serial studies with high frame rate revies, harmonic imaging capability in all modes and integrated stress echo package digital storage and retrieval	Yes, No
	Provision of Tissue Colorization (B-Colour) for improved contrast resolution	Yes, No
	Application software	Adult, Pediatric, Neonatal, Vascular applications and Transesophageal applications
	Cine Loop Features	Yes, No
	Frame grabber facility for post analysis	Yes, No
	Facility of Various maps for pre and post processing	Yes, No
	ECG trigger facility	Yes, No
	User defined Preset	Yes, No
	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography	Yes, No

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Number of transducer/probe ports	1, 2, 3, 4
Scan Modes and Performance Parameters	Cardiac 3-D freehand Option	Yes, No
	Cardiac 3D/4D automatic Option	Yes, No
	Contrast Harmonic/Agent Imaging with angio mode	Yes, No
	Color Doppler 3-D/4-D option	Yes, No
	Power Dopple 3-D/4-D option	Yes, No
	Contrast-enhanced ultrasound (CEUS) option	Yes, No
	Tissue synchronization, tissue velocity	Yes, No
	Cardiac Shear wave elastography	Yes, No
	Cardiac compression elastography	Yes, No
	Provision for higher sensitivity for low frequency doppler in all probes	Yes, No
	Latest generation Electronic Phased/sector array Colour Doppler system	Yes
	Number of Channels in color doppler system	50000 or more (if channels are being designated as digital channels), 500000 or more (if channels are being designated as digital channels), 5000000 or more (if channels are being designated as digital channels), 128 or more (if channels are being designated as physical channels)
System should be capable of generating real time live 3- D images	Yes, No, Yes with MV No Analysis	
Image display and processing	DICOM 3 Compliant	Yes, No
	Automated B-mode (2-D) image	Yes, No
	Automated CDI image optimization	Yes, No
	Automated PW Doppler image optimization	Yes, No
	Touch Screen	Yes, No

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Monitor display size, cm (in)	12 Inch(± 1), 15 Inch(± 1), 19 Inch(± 1), 21 Inch(± 1) Or higher
	Split screen	Twin View, Twin View and Live Quad Screen
	Single/dual monitors	Single, Single with optional second console, Dual (image display on touch panel)
	Speckle-tracking strain and strain rate	Yes, No
	Analysis and calculation packages	2-D wall motion tracking, 3-D wall motion tracking, Cardiac, Mitral valve analysis, User-programmable calculations, No
	Type of printer provided with the echo cardio machine	Thermal Printer, B/W Laser Printer, Color Laser Printer
	Type of processor in PC	i7 or Latest, NA
	Conectivity between Echo cardiogram and PC	Through IMS/Equivalent Software, NA
	PC with all software inclusive interfaced with echocardiograph machine	Yes, NA
	Inkjet printer provided with computer for reporting	Yes, No
	Glossy Colour Print Paper supplied	500 sheets, 1000 sheets, Not provided
	ECG Cable	2, NA
	Echo cardiography sytem to be DICOM Ready	Yes, No
	Dicom Interfacability to HIS	Yes, No
	Dicom Interfacability Dicom to PACS	Yes, No
	Interfacability Dicom to RIS	Yes, No

व्यापक रखरखाव / Comprehensive Maintenance	
Comprehensive Maintenance (Minimum Percentage)	3 %
Comprehensive Maintenance (Maximum Percentage)	25 %
Warranty of required product	5 Year
Comprehensive Maintenance Duration (Post Warranty)	5 Year

*Warranty displayed under the AMC/CMC Details section will supersede the warranty displayed under the catalog specification

Additional Specification Parameters - Echo Cardiography Scanning Machine (V2) (2 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
Specification	Our requirement is mentioned in ATC

* Bidders offering must also comply with the additional specification parameters mentioned above.

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Shiju V S	695011,Sree Chitra Tirunal Institute For Medical Science and Technology,Medical College PO, Trivandrum	2	90

Special terms and conditions-Version:1 effective from 15-04-2024 for category Echo Cardiography Scanning Machine (V2)

1. All Provisions of Drugs and Cosmetics Act, 1940 and Rules (including Medical Device Rule 2017) made there under as amended till date will always be applicable. This will include all notifications issued by Central Drugs Standard Control Organization (CDSCO), Ministry of Health & Family Welfare (MoHFW) and Department of Pharmaceuticals (DOP), Ministry of Chemicals & Fertilizers time to time in this regard.
2. The sellers are registered on GeM based on self declaration of valid Medical Device License, product certification, test reports etc. However, buyers must check and validate the details at their end for all applicable licenses and certifications e.g., validity and authenticity/genuineness of Medical Device license, product certification, manufacturer certification/licenses, test reports etc.
3. In case of authorized resellers/distributors, it will be the legal & regulatory liability of the manufacturer to ensure that their resellers/distributors are operating in compliance with all relevant laws and regulations and are properly licensed to sell the manufacturer's products, including verifying the validity and authenticity of Medical Device license held by them.
4. The price offered by the seller/bidder shall not, in any case exceed the DPCO/NPPA controlled price or price fixed by State Government, if any. The seller must reduce the prices if there is any reduction in DPCO/NPPA ceiling price or price fixed by State Government, if any.
5. Any other Terms and Conditions which is not included or at variance with the conditions specified in STC/GTC, may be added by the buyer through Additional Terms and Conditions (ATC) in the bid to ensure items are procured from authentic/validated source with appropriate and applicable quality. The above terms and conditions are in reverse order of precedence i.e. ATC shall supersede specific STC which shall supersede General Terms and Conditions (GTC), whenever there are any conflicting provisions.
6. **Comprehensive warranty:** Comprehensive warranty shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares. During the warranty period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months. warranty shall not be including the consumables. Further there will be 98% uptime warranty during warranty period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend warranty period by double the downtime period.
7. **Service centres:** Details of Service outlets in India to render services for equipment to be furnished to buyer/consignees with complete address, telephone numbers, e mails etc at time of making the supplies. It shall be the responsibility of seller to ensure that authorized service centres

are available to cater to the areas where supplies are made within reasonable distance from where the service calls can be handled. Details of toll-free numbers for service call and online registration of service requests also to be provided buyer/consignee at the time of supplies.

8. **Source of supply:** It shall be responsibility of seller to provide Documents regarding source of equipments such as copy of Performa invoice or any other documents to establish that the products supplied are manufactured by OEM indicated and sourced from them.
9. **Packing and Marking:** Medical equipments being very delicate and sensitive packing for the goods should be strong and durable enough to withstand transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. .The size, weights and volumes of the packing cases, remoteness of the final destination of the goods, availability or otherwise of transport and handling facilities at all points during transit up to final destination,. Quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall take into consideration the type of medical equipments being supplied. The accessories shall be suitably labelled and packed. Each of the package shall be marked on three sides with indelible paint of proper quality: indicating contract number and date, brief description of goods including quantity, Packing list reference number, country of origin of goods and any other relevant details.
10. **Spare Parts:** Seller shall provide materials, information etc. pertaining to spare parts manufactured and supplied by the OEM. It shall be ensured that the required spares are available for purchase at least for 10 years from date of supplies. In case due to any reasons the production of the spare parts is discontinued sufficient advance notice should be given to the buyer/consignee before such discontinuation to provide adequate time to purchase the required spare parts etc. Further, OEM and their service centres/dealers shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the equipments so that the same are available. OEM or reseller shall always accord most favoured client status to the buyer/consignee and shall give the most competitive price for spares and consumables of its machines/equipments supplied.
11. **Installation, Training, Manuals:** Seller shall be responsible to carry out Installation & commissioning, Supervision and Demonstration of the goods. They shall provide required jigs and tools for assembly, minor civil works for the completion of the installation and Training of Consignee's representatives for operating and maintaining the equipment and supplying required number of operation & maintenance manual for the goods. In case the category parameters are specifying any requirements regarding the installations, training and manuals the same shall also be applicable.
12. **Electrical safety checking:** Sellers are required to make sure that they furnish the list of equipments for carrying out routine and preventive maintenance to buyer/consignee .They should make sure to periodically check the electrical safety aspects as per BIS Safety Standards or equivalent .In case they do not have required equipment for such testing should ensure that the equipments checked for electrical safety compliance through labs with facilities for such checking during every preventive maintenance call.
13. **Software:** All software updates should be provided free of cost during warranty period.

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/**Buyer Added Bid Specific Terms and Conditions**

1. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$, subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. **Service & Support**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of

documentary evidence of having Functional Service Centre.

3. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

DIRECTOR, SCTIMST
payable at
TRIVANDRUM

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

4. **Forms of EMD and PBG**

Bidders can also submit the EMD with Fixed Deposit Receipt made out or pledged in the name of A/C

DIRECTOR, SCTIMST

. The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of EMD, the FDR will be released in the favour of the bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Bidder has to upload scanned copy/ proof of the FDR along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date/ Bid Opening date

5. **Generic**

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

6. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 7 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

7. **Warranty**

Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide Comprehensive Maintenance Service for next 5 years for the offered products at the rate not more than 5 % of contract price per annum. Buyer reserves the right to enter into a CMC agreement with the Successful Bidder / OEM after expiry of the Warranty period at above mentioned rate and the payment for the CMC charges would be made Biannually after rendering of the CMC Services of the relevant CMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the CMC contract when called upon by the buyer. CMC would include cost of

AS PER SPECIFICATION

(Upload the undertaking). The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 3% of total CMC value valid up to CMC period plus 2 months (if there is no other claim).

8. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

9. **Generic**

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

10. **Generic**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any

responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

11. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

- A. Bidders are advised to quote prices as per technical specification. However detailed breakup of quoted prices should be provided in Price Format – A uploaded in the prescribed place (Financial Document Required) on online GeM portal. The prices quoted in the prescribed field on GeM portal will be considered for ranking purpose. Total price quoted in Price Format – A must match with the price quoted in GeM portal. Bidders should not include price bid in the technical bid. **The Price formats A, B, C, D and E to be submitted along with financial bid only. If any of the price components disclosed in the technical bid, the bid will summarily be rejected and the bidder will be DISQUALIFIED from further bidding process.**
- B. The Bidders are advised to quote price of Spare parts, Consumables in the attached format “B” and “C” accordingly and uploaded the same in the prescribed place (Financial Document Required) on online GeM portal. The equipment should be supported with spares for a minimum period of 10 years after successful installation and commissioning.” All the spares and consumables required for the equipment should be made available through GeM throughout the agreed supporting period”.
- C. The five years warranty sought for is OEM/bidder free warranty without any additional cost towards extended warranty to fulfil the tender condition. The charges, if any, claimed by the bidder towards warranty in this regard and included in the product cost in Price Format –A should be mentioned in the price format D also, and uploaded the same in the prescribed place (Financial Document Required). This warranty charges shall not be considered for calculating actual CAMC value to be payable after warranty period. Where the total cost does not include such warranty charges, the bidder shall submit a declaration- "Certify that the Equipment/accessories quoted in the bid is having OEM/bidder free warranty of three years and the total cost quoted in the bid does not include any warranty charges to fulfil the tender condition of three year warranty". This declaration shall be furnished along with the Technical bid in format G. False declaration may lead to rejection of bid. In the case of agents quoting on behalf of their foreign principal, proforma invoice from the OEM (Foreign principal company) indicating the nature of after sale service including warranty condition and commission payable to the Indian agent shall be furnished along with the price bid.
- D. As per the Institutes general policy, the maximum CAMC charges after warranty period will be 5% of the cost of the equipment. However the bidders can quote CAMC charges in the range of 3 to 10 % of the cost of equipment, depending on the nature of equipment to be maintained.
- E. The CAMC charges shall be quoted in percentage rate in GeM bid and escalation in CAMC charges shall be allowed at maximum 5% after every three years of CAMC.
- F. This CAMC charges at Net Present Value shall be taken into account for arriving the lowest responsive bidder. The actual CAMC value to be payable after warranty period shall be separately worked out based on the "Cost of the equipment for CAMC calculation" and shall be furnished in "Format –E" and uploaded the s

ame in the prescribed place (Financial Document Required). The year wise rate percentage of CAMC quoted in the bid for L1 evaluation should be used for calculating the actual CAMC value.

- G. The “cost of the equipment for CAMC calculation” shall not include additional warranty cost (if any), cost towards Installation, Commissioning and Testing (in addition to the original equipment cost of the OEM), cost of transportation, including import customs duty, Agency commission, any specific excluded items from CAMC as per the tender condition and GST included in the product cost quoted.
- H. The cost of the equipment for CAMC calculation shall be mandatorily furnished in format D.
- I. The warranty and CAMC condition as given above should be applicable for the third party items, if any supplied. The successful bidder shall furnish the agreement executed in this regard with the third parties as and when called for. The genuineness of price quoted for the equipment / accessories are very important and this price shall not be loaded with any other cost.
- J. The successful bidder shall enter into CAMC 3 (three) months prior to the completion of warranty period. The CAMC will commence after the date of expiry of warranty period from the date specified in the work order and as per the terms and conditions issued in this regard, which will be treated as the first year of CAMC. This tender will form part of the CAMC work order.

K. Penalty clause:

- i. **Delay in Delivery:** If the supplier fails to deliver or install/commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the Purchase Order, the Purchaser shall, without prejudice to other rights and remedies available to the Purchaser under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser may consider termination of the contract. If any delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
 - i. Imposition of liquidated damages,
 - ii. Forfeiture of its Performance Security and
 - iii. Termination of the Contract for default
- ii. **Performance (during Warranty period)** Supplier should ensure uninterrupted service delivery of the equipment or product during the warranty period. In this regard following conditions also may be noted:
 - i. In case of failure of equipment or its components, breakdown call has to be attended within 48 hours of intimation

and will be rectified in due course.

ii. In case of non-adherence to clause (i) above, downtime penalty will be realised a sum equivalent either the repairing charges met by the Institute to set right the equipment or 0.1 percent per day of cost of the equipment, whichever is higher, from the date of report of breakdown by way of deductions from SD/Performance Bank Guarantee.

iii. The time spent on the repair work will be added to the warranty period of the equipment.

iii. **Performance (during CMC/AMC period):**

i. Uptime means 95 percent of total days in a year during which the equipment remains functional.

ii. Down time means any shortage in achieving the uptime

iii. Down time penalty will be levied as per following terms and condition:

iv. In the case of CMC, it shall be the responsibility of the service provider to set right the equipment and avoid downtime. Down time penalty will be imposed @ 0.5 percent of contract value per day from the service provider.

v. In case auxiliary units/components attached to the main equipment undergoes failure and the main equipment provides uninterrupted services, down time penalty will be imposed @ 0.1 percent of contract value per day per auxiliary unit from the service provider.

vi. Service provider should ensure rectification of defect of equipment within a reasonable period in the case of Labour Annual Maintenance Contract. In case breakdown is not attended within 48 hours of intimation, down time penalty will be imposed @ 0.5 percent per day of contract value from the service provider.

L. **Qualification criteria**

- i. The bidder must be a manufacturer or their authorized agents having a place of business in any state of India are eligible to participate in this bid. The bidders should submit "Manufacturer's Authorization Form" for each items quoted and shall be submitted along with technical bid, as per the format enclosed in the bid document (Format "F").
- ii. EMD should be submitted along with technical bid. The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category only manufactures are eligible for exemption from EMD.
- iii. Integrity Pact Agreement will form part and parcel of this tender. It is mandatory to enclose the Integrity Pact Agreement along with the technical bid. Independent External Monitors:

1. **Shri Pramod Kumar Garg, CE & MES (Retd)** Email: pkgarg.1957@gmail.com Ph:9810778058

2. **Shri OtemDai, IAS (Retd)** email: otemdai@hotmail.com

Ph:9402277510/9717700275

- M. Bidders may please be read as uptime warranty as 95 % instead of 98 % as per bid terms and conditions.
- N. SCTIMST reserves the right to ask for a free demonstration of the quoted equipment/ items after giving reasonable time to the bidder at a pre -determined place acceptable to the purchaser or at a site (in case of non-portable and heavy equipment) for evaluating the technical compatibility as per the bidding document specifications, professionalism and quality of work of the bidder for technically qualifying for opening the Price Bid. SCTIMST reserves the right to accept/ reject the bid based on the product/ site evaluation as stated above.
- O. List of documents to be attached along with bid.
- i. Along with Technical Bid - Format F, G,H, EMD receipt and Integrity Pact
 - ii. Along with Price bid - Format A, B, C, D and E
- P. On-site installation required. .
- Q. Payment terms :100% will be paid on the successful delivery of equipment and after satisfactory installation and commissioning of equipment along with submission of "Installation Report" to be issued by User Department and DCE. The delivery of the equipment should be completed within 90 days from the date of issue of GeM contract.
- R. As per approval from the Department of Science and Technology, non local suppliers can also participate together with local suppliers in the tender.
- s. For all disputes arising out of this contract the legal jurisdiction will be Thiruvananthapuram
- T. Company should possess a valid CDSCO license to sell the equipment in India (Import or Indigenous). Copy of the same should be provided along with the tender document.

Bidders should comply the specification mentioned below :

HIGH END ECHOCARDIOGRAPHY SYSTEM

1. It should be the latest standalone echocardiography system/ platform/ make/ model/edition/ or version, which is supplied to medical institutions in India, having latest hardwares, softwares and ultrasound probes.
2. Echocardiography system / platform/ make/ model/ edition/ or version should not have been launched in India more than 4 years earlier to the date of its delivery to SCTIMST. Supporting documents should be attached.
3. There should be provision for updation of software's over a period of 10 years after purchase

4. It should comply with Institute rules regarding purchase and maintenance.
5. The bidder should provide data in a tabular format stating following details regarding the bidding items: standalone general imaging high-end ultrasound system: OEM; brand/system/make/model/version/edition.
6. Bidder should not include price bid in the technical bid. Please refer to the buyer added bid specific ATC; do not include formats A, B, C, D and E in the technical bid. If the price bid is included in the technical bid, the bidder will be disqualified from the tendered bidding process. Integrity pact should be attached along with the technical documents.
7. The bidder should provide technical details of the standalone general imaging high-end ultrasound system, preferably as a product brochure.
8. Bidder should demonstrate the product if requested by the Institute.

Mobility

1. Standalone machine system should be supplied with height adjustable original cart with wheel locking and swivel facility for portability. The wheeled trolley should comply with international safety and electrical standards.
2. The echocardiography system and the wheeled trolley should belong to the same manufacturer.

Power supply

1. The power supply cable to the ultrasound system from electrical plug should be at least 3 meters in length.

Safety parameters:

1. It should be a medical-grade product and should meet electromagnetic and electrical compatibility with established safety standards.
2. It should have class-1 electric shock protection
3. Electric power utility should be compatible with hospital electrical power supply (Power capable operating on 220V, 50Hz AC)

Ultrasound system storage capacity:

1. Image storage facility should be on in-built SSD hard disk having storage capacity of 1TB or more.

Echocardiography probes: System should be supplied with following echocardiography transducer probes, which have latest technology and compatibility with the system.

1. All echocardiography systems should have latest adult 3D/4D/live 3D transesophageal echocardiography matrix probe (2-8 MHz) or a wider range of lower and higher frequencies in MHz. The transducer should have single crystal technology or pure wave technology or a similar latest technology. Should have more than 2500 elements for excellent image quality. It should provide real-time simultaneous live biplane imaging. Must attach original technical data sheet of transducer to specify the number of crystals used in the transducer. One additional adult 3d/4D/live3D transesophageal echocardiography matrix probe (2-8 MHz) to cardiac anaesthesia.

2. Latest adult 3D/4D/live 3D transthoracic echocardiography matrix probe 1-5 MHz \pm 0.5MHz frequencies in MHz for adult cardiac imaging. The transducer should have single crystal technology or pure wave technology or a similar latest technology.
 - a. System should have 4 active in-built probe connecting ports.
 - b. All transducer probes must be original from the same manufacturer, and should fit into the probe ports without any intervening adaptors.
 - c. There should be provision to hold transthoracic probes on the trolley and store the TEE probes in appropriate carrier case.

3. The echocardiography systems for department of cardiology should have the following probes:
 - I. System A:(cardiology)
 - a. Adult 2d transthoracic echo doppler transducer with frequency ranging from 1-5 MHz \pm 0.5MHz. This transducer should have either single crystal technology or pure wave technology for excellent image quality on difficult to image patients. Must have tissue harmonic imaging.
 - b. Pediatric transthoracic echo doppler transducer with frequency ranging from 3-8 \pm 2 MHz.
 - c. Live 3d/4d transthoracic echo transducer for adult cardiac imaging frequency ranging from 1 - 5 MHz(\pm 0.5MHz)
 - d. Latest adult live 3d/4d/live 3d transesophageal echocardiography matrix probe (2-8MHz) or a wider range of lower and higher frequencies in mhz. The transducer should have single crystal technology or pure wave technology or a similar latest technology. Should have more than 2500 elements for excellent image quality. It should provide real-time simultaneous live biplane imaging. Must attach original technical data sheet of transducer to specify the number of crystals used in the transducer.
 - e. Transesophageal transducer for pediatric(2d) transesophageal echocardiography
 - f. Curvilinear convex probe for trans abdominal fetal echocardiography with frequency ranging from 3 - 7 (\pm 2 MHz)
 - g. Pediatric live 3d/4d transthoracic echo doppler transducer with frequency ranging from 3-7 \pm 2 mhz.
 - h. Neonatal 2d transthoracic probe - 4-12 \pm 2mhz
 - i. Hockey stick probe 7 - 15 MHz
 - j. Pediatric live 3d/4d transesophageal echo doppler transducer with frequency ranging from 4 - 11mhz
 - II. System b: (cardiac anaesthesia)
 - a. Adult 2d transthoracic echo doppler transducer with frequency ran

ging from 1-5 mhz \pm 0.5mhz. This transducer should have either single crystal technology or pure wave technology for excellent image quality on difficult to image patients. Must have tissue harmonic imaging.

- b. Pediatric transthoracic echo doppler transducer with frequency ranging from 3-8 +/-2 mhz.
- c. Neonatal 2d transthoracic probe - 4-12+/-2mhz
- d. Live 3d/4d transthoracic echo transducer for adult cardiac imaging frequency ranging from 1 - 5 mhz(+/-1mhz)
- e. Latest adult live 3d/4d/live 3d transesophageal echocardiography matrix probe (2-7 +/-2 mhz) or a wider range of lower and higher frequencies in mhz. The transducer should have single crystal technology or pure wave technology or a similar latest technology. Should have more than 2500 elements for excellent image quality. It should provide real-time simultaneous live biplane imaging. Must attach original technical data sheet of transducer to specify the number of crystals used in the transducer (2 in quantity).
- f. Pediatric live 3d/4d transthoracic echo doppler transducer with frequency ranging from 3-7 +/-2 mhz.
- g. Neonatal transesophageal 2d echocardiography probe (3-8 +/-2 mhz)
- h. Pediatric live 3d/4d transesophageal echo doppler transducer with frequency ranging from 4 - 11mhz
- i. Hockey stick probe 7 - 15 mhz

1. system should have 4 active in-built probe connecting ports.
2. All transducer probes must be original from the same manufacturer, and should fit into the probe ports without any intervening adaptors.
3. There should be provision to hold transthoracic probes on the trolley and store the tee probes in appropriate carrier case.
4. one laser color printer to be provided with the echocardiography machines in cardiology and anaesthesia for furnishing echocardiography reports and prints.

Monitoring screen

1. The flat-panel screen size should be 21 inches or above. It should be a HDU or OLED touch screen, displaying high resolution and clear images.
2. There should be provision to adjust height, rotation and adjusting position of the screen with locking facility

Knob controls

1. The control panel should be equipped with hard and soft keys for optimizing image quality, acquisition and quantification.
2. Finger tip control touch screen user-interface

Imaging modes

1. 2d imaging modes:

- a. System must be offered with 2d echocardiography, m-mode, color m-mode, color flow doppler, color power doppler, automated adjustment of color doppler, pulse wave doppler, continuous wave doppler, pulse wave color tissue doppler imaging, duplex mode, triplex mode, micro bubble contrast imaging for cardiac chamber opacification, tissue harmonic imaging, color comparison, automated optimization of gain and contrast.
- b. All above mentioned modes should be compatible with both transe sophageal echocardiography and transthoracic echocardiography.
- c. The transesophageal echocardiography probe should be able to display excellent quality of 2d images in transgastric views with complete envelope on cwd, which will enable accurate quantification of lvot and aortic valve parameters.

2. Real-time-3d/4d echo cardio graphy imaging modes:

- a. Both TTE and TEE 3d/4d probe should have following modes: biplane real-time imaging, single-beat and ECG-gated multi-beat acquisition of 3d/4d volumes and rendering, 3d/4d zoom and color full volume, single-beat high volume rate acquisition, live 3d/4d imaging in color doppler system. Single-beat high volume rate acquisition should be possible. Rendering should be possible in multiple plane views, 3d/4d multi-slice planes.
- b. The 3d/4d images should display excellent quality for anatomical features during intraoperative mitral valve repair and mitra clip application in the catheter laboratory.
- c. There should be dedicated keys on the panel for adjusting contrast and compression to optimize 3d/4d image quality during live interrogation and post-processing.

Quantification tools in 2d echocardiography: The 2d analysis of data performed by the system should be available both in transthoracic and transesophageal echocardiography. Those analytical features, which are not loaded by default, should be entered in the system manually.

1. LV volumes and LVEF by length, area, volume methods, including for biplane method.
2. Prosthetic aortic and mitral valve peak velocity, mean gradient, DVI, acceleration time, EOA, AT/ET, MV pressure half time.
3. Valve stenosis and regurgitation
4. TAPSE, MAPSE
5. MPI or TEI index
6. DP/DT
7. LVOT cardiac output
8. LV mass

9. LVFAC
10. PISA mitral valve
11. RVSP
12. diastolic function
13. angle measurement
14. Heart rate
15. LA size area
16. RA size area
17. Hepatic and pulmonary venous doppler parameters.
18. Tissue doppler parameters

Quantification tools in 3d/4d transesophageal echocardiography

Following quantification tools should be provided, which will be compatible with 3d/4d transesophageal echocardiography.

1. latest version of the built-in original vendor-licensed software for 3d/4d acquisition, processing and rendering of data. Two such softwares should be installed with each system; one in the echo cardiology system and another in a portable laptop (anaesthesia) and pc desktop (cardiology).
2. real-time virtual cropping of 3d/4d dataset in 3 orthogonal planes and free plane, with provision of automated selectively cropping the roi, single click gain, compression/dynamic range settings.
3. 3d/4d left ventricular quantification using voxel count or similar algorithms, including segmental time-volume curves, automated endocardial border tracing with provision for manual override, left ventricular volumes and ejection fraction, bull's eye/ volume mesh rendering of time-volume curves, multi-slice view of lv, 17-segment bull's eye/ global mesh parametric imaging or similar features.
4. 2DLV segmental and global longitudinal strain quantification and circumferential strain quantification using speckle tracking method and valve annular movement tracking or tissue tracking should be provided.
5. Mitral valve 3d/4d volume acquisition and rendering to generate dynamic model of mitral valve with latest quantification tool.
6. 3d/4d software for measurements of dimensions, area and volumes
7. quantification tool for transillumination of mitral valve and other tissues using 3d/4d rendering. It should be compatible with transesophageal echocardiography.
8. quantification tool for quick automatic 3d/4d data processing for mitral valve to analyze anatomy and dynamics during systole.
9. 3d/4d color quantification tool for PISA
10. 3d/4d quantification for valves

Additional quantification tools in 3d/4d transthoracic echocardiography

In addition to the quantification tools available in 3d/4d transesophageal echocardiography, following features should be available on transthoracic echocardiography.

1. Quantification tool for automated quick quantification of 2d LV longitudinal strain, LA strain and RV strain.
2. Quantification tool for automated 3d/4d measurements of left atrial volume, left ventricular volumes and mass in full cardiac cycles with moving contours of cardiac chambers .
3. fast and easy quantification of la strain using 2d speckle tracking to measure l a reservoir function, conduit function and contractile function.

Artificial intelligence/ machine learning-enabled features:

AI/ML-enabled automated doppler quantification in TEE; AI-enabled automated mitral valve quantification in tee; automated 2d quantification of left ventricle in tee.

Image processing and transfer

1. Exported images and videos should be transferable in dicom, avi, jpeg/ mpeg or other common formats through at least two usb-3 ports.
2. System should have facility to transfer images to an integrated dvd writer, pen drives without any interfacing.
3. Direct writing capability to mass storage devices such as pen drive and external hard disk, which are PC and MAC compatible.
4. There should be capability to transfer images and loops with or without patient details such as name, date, hospital number, etc by two or three knob selections. The parameters displayed on ultrasound images and videos such as gain, compression, frame rate, gray scale, color nyquist limit, MI, TI, ECG, etc should be included along with the images and loops during transfer. The ultrasound parameters, which will not be transferable with images and loops should be documented.
5. Three or more USB ports should be provided for image transfer.

Connectivity

Laptop and desktop for installing licensed vendor-specific original 3d/4d processing software

A laptop and desktop should be provided with following specifications:

1. It should be from a branded manufacturer with atleast 5 12GB SSD hard disk
2. Intel core I 7 & 12th or higher generation or higher processor, 16 GB or more ram, flat panel 14inches or larger screen, 2 or more USB-3 ports, image and graphic softwares, latest original version of microsoft office home/student one time purchase and original windows 11 or higher, carry bag (original company made preferable), 3-year extended warranty.
3. The latest licensed software installed in echocardiography and laptop should have following minimum features: processing of 3d/4d dataset; color 3d/4d; 2d strain quantification.

4. AI/ML-enabled and tee imaging compatible automated doppler quantification, automated mitral valve quantification and automated quantification of left ventricle should be provided in the laptop for offline use. The laptop softwares should be same as that loaded in the echocardiography system. Suitable antivirus for the system to be provided for us as multiple insertions of usb have the potential to harm the hard disk.

Accessories:

1. ECG cable: 3-lead ECG cable (2units with each system)
2. Tray/ tub for sterilizing 3d/4d TEE probes using antimicrobial solutions: 1 with each system
3. Slave/ connecting cable to connect between hemodynamic monitor and echocardiography system (2 units with each system)
4. TEE probe tip protector: 5 units with each system
5. Bite guard adult and bite guard pediatric: 5units with each system.

Bidder should also meet the following parameters with

Regard to DICOM/HL7/IHE requirements

1. The modality must be DICOM (digital imaging in communications and medicine) compliant, provide at a minimum level 2 conformance, and be able to function with other DICOM compliant modalities and systems within sctimst.
2. The intent is to provide maximum automation for the institution utilizing dicom standards. This includes specifically the institutions pacs (picture archiving and communications system), and any other dicom equipment specified in the bid.
3. Functionality at a minimum includes dicom storage service class user (scu) and dicom verification service class user and provider (scu and scp) capability. these classes should be current and appropriate for the modality, and if requirements specify connection to an older system, should include any potential 'retired' sop (service object pairs) the older modality may require. If the modality does not yet have the capabilities below, they must be installed at no additional charge within one year from purchase. These items must be clearly stated in the bid submissions, along with projected time frames for implementation.
4. The modality must be able to perform dicom modality work list information model find functions so that patient orders can be selected from a work list provided by pacs/ ris (radiology information system), rather than requiring manual entry by the technologist. The work lists will be provided mwl license pack.
5. The modality must be able to perform dicom modality performed procedure step functions, so that exam progress status can be automatically sent back to pacs/ ris, and dicom storage commitment.
6. The modality must be able to perform dicom query/ retrieve functions as a service class user for all appropriate image sets to allow for retrieval of prior studies for comparison at the modality.
7. The modality must be able to perform dicom print as a service class user for all appropriate images ets, and must work with sctimst dicom print servers.
8. SCTIMST currently has GE'S PACS(centricity6.0sp10) and RIS system (centricity

ris 6.0 sp 10.3), it is the vendor's responsibility to ensure that image scan be stored, retrieved and properly displayed from pacs, and that all requested dicom/hl7/ ihe functions work with the appropriate sctimst systems. This includes any additional licenses, fees and service required to connect the modality and to provide the functionality. Mpps sop class must be implemented by the vendor. If this connection does not work due to the vendor's product not properly implementing the dicom standard, it must be fixed. It is the intention of this bidder to ensure a complete installation, and that there will not be any 'gaps' left to sctimst to pay for outside of the bid to make the systems work as intended.

9. Once the modality is installed, the vendor will work with sctimst to provide validation testing before production use to ensure proper exchange of intended information.
10. The vendor must be a participant in the ihe (integrating the healthcare enterprise) initiative. A current ihe integration statement must be provided prior to the bid. It is sctimst intent to utilize ihe principles to support the integration of systems in the healthcare enterprise. The vendor must be working in the same direction in order to be considered for this bid. There are currently a number of integration profile specifications, with varied degree of support from vendors. Ultimately, all integration profiles should be a standard part of a vendors offer. The specific Profiles are listed below, and are required if applicable to the system being bid. If the vendor does not currently support applicable profiles, they must be made available upon vendor implementation at no extra charge to sctimst. The vendor must provide user authentication/ access control at the device, as well as node authentication and exportable audit logs in the ihe audit trail and node authentication (atna) format. There must be an ability to synchronize the clock on the device with a central clock specified by sctimst.
 - a. Patient information reconciliation (pir)
 - b. Scheduled work flow (swf)
 - c. Consistent presentation of images (cpi)
 - d. Evidence documents (ed)
 - e. Access to radiology information (ari)
 - f. Portable data for imaging (pdi)
 - g. Audit trail and node authentication (atna)
11. If the modality provides storage to removable devices (dvd or mod), this storage must comply with the dicom part 10 media interchange standards and the ihe portable data for imaging (pdi) profile. To insure compliance with sctimsthipaa policy, the storage mechanism must at least have the option to remove identifiable healthcare information from the image sets that will be transferred via this mechanism, and all creation functions must be logged according to the IHE ATN A profile.

Software patches

The vendor must provide critical (security or operational) patches on a timely basis, including the process of fda approval. If the system is affected by an attack on an unpatched (one that has a patch available for it but has not been installed pending approval by the vendor) security hole, it is the vendors responsibility

to bring the system back to a functional state within the emergency response time specified under service.

Network requirements

Network connections should be located within 15 feet of the console. The bid system should support 1000mbps (1000 base t) network speeds. 1000mbps network speed is preferred, particularly for modalities that create large data sets, such as multi-slice ct. The sctimst pacs network shall be segmented from the rest of the hospital network, and utilize category 6a cables for all installations. Network jacks must be 8 pin modular (rj45). The system should be connected to the network via patch cord connection to the facility infrastructure. Sctimst will provide ae titles, ip address, default router ip address, and subnet mask for each system installed.

Hardware and operating system requirements

All computer hardware and operating systems must be current versions. For windows at this time that would be windows 10/11 professional or server editions 2019 or above. If a vendor is currently utilizing an older operating system; the system must be upgraded within a year to the current version of the operating system.

Should have a valid Indian standards quality certification. If there is no Indian standard available in this category, then the item should have a valid USFDA / CE. Copy of the certificate should be attached.

The equipment must come with five years comprehensive warranty and 5 years CAMC with 10 years of service support from the date of installation. CAMC rates must be mentioned in the quote from sixth year onwards.

12. **Rate Contract**

Demurrage charges In case the rejected items are not lifted by the firm within 48 hrs, the demurrage charges at the rate of 0.5% of total contract value will be charged per day. In case the items are not lifted within a month, the same will be destroyed by the station board of officers and no claim will be admitted. Demurrage charges. In case the rejected items are not lifted by the firm within 48 hrs, the demurrage charges at the rate of 0.5% of total contract value will be charged per day. In case the items are not lifted within a month, the same will be destroyed by the station board of officers and no claim will be admitted.

13. **Rate Contract**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

14. **Generic**

Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

15. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

DIRECTOR, SCTIMST
payable at
TRIVANDRUM

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

16. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of

DIRECTOR, SCTIMST

A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

17. **Generic**

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

18. **Generic**

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

19. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

अस्वीकरण/**Disclaimer**

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer, is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).

2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

Additional Clause For Comprehensive Maintenance Charges

- 1.CMC shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, after satisfactory completion of Warranty. During the CMC period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months or as per user requirement. Cost of consumables shall not be included in CMC. Further there will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- 2.CMC charges to be indicated as percentage of cost of equipment quoted for each year after the warranty period.
- 3.GST shall be included in the CMC Charges quoted.
- 4.Cost of CMC will be added for Ranking/Evaluation purpose with depreciation formula. A 10% discounting rate per year shall be applied on CMC Charges for price evaluation on Net Present Value.
- 5.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user.
- 6.While creating a bid or RA, buyers shall indicate whether CMC is required against Yes/No" options. If CMC Charges are included, an option for number of years for CMC required after the warranty period shall be available. Under this option up to 15 years can be chosen for CMC charges beyond warranty period.
- 7.In case the bid has a provision for CMC, the warranty of the product will also be deemed to have been converted into Comprehensive warranty including preventive maintenance and calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, during the Warranty Period also. Sellers are therefore advised to include the cost of Comprehensive Warranty including spares (excluding consumables) also in product Cost.

8.The CMC functionality shall be available in bid only and no direct RA shall be applicable.In case of bid to R/A decrement rules shall be applicable on total price inclusive of CMC charges. Bunching of products shall not be available while creating bids with CMC charges.

8.1.Buyer shall indicate number of years of warranty by selecting different options available in the field depending on warranty parameter applicable in category parameters for the equipment. No. of years of warranty indicated here shall supersede the warranty period indicated elsewhere in bid or product specifications. The Seller while participating in Bid/RA will get fields to indicate CMC charges as percentage depending on number of years of CMC selected by Buyer. The following shall be applicable, if 5 year CMC selected:

- CMC charges for 1st year after warranty period- Percentage to be indicated- A1
- CMC charges for 2nd year after warranty period- Percentage to be indicated- A2
- CMC charges for 3rd year after warranty period - Percentage to be indicated- A3
- CMC charges for 4th year after warranty period - Percentage to be indicated- A4
- CMC charges for 5th year after warranty period - Percentage to be indicated- A5

Similarly, A6 to A15 are to be indicated for 6th to 15th year of CMC if applicable.

8.2.The calculation of CMC Charges shall take into account the number of years of warranty and duration of CMC as specified while creating bid.

8.3.In the price evaluation, the system shall provide function to calculate the cost of each equipment by formula indicated below including CMC and then show the inter-se-ranking of the bidders. The following are the variables

- (i) Number of years for which CMC required.
- (ii) Number of years of product warranty

The formula for calculating total cost including CMC charges shall be as under:

Total Cost for evaluation=

$C + C * \{ (A1/100)/(1.10^n) + (A2/100)/(1.10^{n+1}) + (A3/100)/(1.10^{n+2}) + (A4/100)/(1.10^{n+3}) + (A5/100)/(1.10^{n+4}) \}$ and so on

C - Cost for equipment quoted and n shall be number of years of product warranty specified.

If 2 year warranty specified, n shall be 2 and if 5 year warranty specified, n shall be 5. A1,A2, A3, A4& A5 shall depend on how many years CMC selected. For 3 year CMC, only A1,A2 and A3 factors are to be taken into account and A4 and A5 will not be applicable.

8.4.CMC charges offered for each subsequent year should be same or higher than preceding year.

8.5.The CMC charges shall be offered within range of 3 to up to 50% of cost of equipment as defined by buyer.

9.Since CMC charges are to be paid only later for each year during CMC period,applicable performance guarantee amount after placement of contract shall be based on the cost of equipment excluding the cost of CMC Charges.

10.Performance bank guarantee applicable for CMC is to be submitted at start of the CMC and shall be applicable between 2.5% to 10% as specified in bid on total CMC Charges.The PBG submitted after award of contract shall be released only after new PBG for the CMC period is submitted and accepted by buyer/consignee after due verification.Bank guarantee for CMC is to remain valid till completion of CMC period plus one year. The bank guarantee for CMC shall be submitted to buyer directly. In case, seller fails to submit the PBG or does not provide services for the CMC contract after expiry of warranty period then PBG of equipment shall be forfeited.

11.In case of splitting of order quantity, equipment cost and CMC charges offered by L1 bidder shall be matched by higher quoting eligible bidders on one-to-one basis.The equipment cost and CMC charges (year to year) shall be matched individually.

12.The CMC Contract shall be an offline contract to be handled by buyer.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user and scope of CMC will be as per para 1 above.

13.CMC Charges are inclusive of all the charges for Transportation, Lodging, Boarding, all insurances including third party insurance and all other incidental charges. The same shall include GST. The prices also include cost of spares and damaged parts. Purchaser does not have any liability, whatsoever, over and above the cost of CMC. It also includes for arranging hand tools & tackles, special tools etc. required to carry out the work.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules)

shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---