

Bid Document

Bid Details	
Bid End Date/Time	16-09-2022 17:00:00
Bid Opening Date/Time	16-09-2022 17:30:00
Bid Offer Validity (From End Date)	180 (Days)
Ministry/State Name	Ministry Of Science And Technology
Department Name	Department Of Science And Technology (dst)
Organisation Name	Sree Chitra Tirunal Institute For Medical Sciences And Technology (sctimst)
Office Name	Thiruvananthapuram
Total Quantity	1
Item Category	Echo Cardiography Scanning Machine (Q3)
Minimum Average Annual Turnover of the bidder (For 3 Years)	42 Lakh (s)
OEM Average Turnover (Last 3 Years)	168 Lakh (s)
Years of Past Experience Required for same/similar service	3 Year (s)
MSE Exemption for Years Of Experience and Turnover	Yes
Startup Exemption for Years Of Experience and Turnover	Yes
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (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
Past Performance	30 %
Bid to RA enabled	No
Comprehensive Maintenance Charges Required	Yes
Time allowed for Technical Clarifications during technical evaluation	7 Days
Evaluation Method	Total value wise evaluation

EMD Detail

Advisory Bank	State Bank of India
EMD Percentage(%)	2.50
EMD Amount	212500

ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	38

(a). 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). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

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
(Dr.sanjay Behari)

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or

through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts 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.

5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

6. 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. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs 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 the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. 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. 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 Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

8. Estimated Bid Value indicated above is being declared Bid 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.

9. 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 / Public Listed Company. 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.

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
07-09-2022 12:00:00	Please go through the online link Join from the meeting link https://sctimst.my.webex.com/sctimst.my/j.php?MTID=mee0654cc495cf361d026fed65eee1d50 Join by meeting number Meeting number (access code): 2642 562 6200 Meeting password: 12345

Echo Cardiography Scanning Machine (1 pieces)

(Minimum 50% and 25% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Registered Brand
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Technical Specifications

* [As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)
Standards	Conformity to Manufacturer's Certification	ISO 9001
Types of Probes & Features	Cardiac and Vascular Probes Configuration	ALL
	TTE Probe Type	Adult, Adult and Pediatric
	TEE Adult Probe biplane and Multiplane frequency, in MHz	2 - 7.5 MHz (± 2), Not Applicable
	TEE Pediatric Probe Supplied	No
	TEE Pediatric Probe frequency, in MHz	Not Applicable
	Linear Probe for linear/vascular applications	Yes, No
	Adult/Pediatric Linear probe frequency in MHz	5 - 14 MHz (± 2), 5-10MHz (± 1), Not Applicable
	No of Pediatric TTE Probes supplied	1, NA
	No of Adult TEE Probes supplied	1, NA
	No of Adult/pediatric Linear Probes supplied	1
	Dedicated 3D/4D volume imaging for cardiology TTE and 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 reviews, harmonic imaging capability in all modes and integrated stress echo package digital storage and retrieval	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
	Provision of Tissue Colorization (B-Colour) for improved contrast resolution	Yes, No
	Application software	Adult, Pediatric, Vascular and Transesophageal applications
	Cine Loop Features	Yes
	Frame grabber facility for post analysis	Yes, No
	Facility of Various maps for pre and post processing	Yes
	ECG trigger facility	Yes
	"Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography"	No
	Number of transducer/probe ports	1, 2, 3, 4
Scan Modes and Performance Parameters	Cardiac 3-D freehand Option	No
	Cardiac 3D/4D automatic Option	Yes, No
	Contrast Harmonic/Agent Imaging with angio mode	Yes, No
	Provision of Harmonic imaging in TTE, TEE and Linear Probes	Yes
	Color Doppler 3-D/4-D option	No
	Power Dopple 3-D/4-D option	No
	Contrast-enhanced ultrasound (CEUS) option	Yes, No
	Tissue synchronization, tissue velocity	Yes, No
	Cardiac Shear wave elastography	No
	Cardiac compression elastography	No
	Provision for higher sensitivity for low frequency doppler in all probes	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
	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)
	System should be capable of generating real time live 3- D images	YES, NO, Yes with MV No Analysis
Image display and processing	DICOM THREE POINT ZERO COMPLIANT	Yes
	Automated B-mode (2-D) image	Yes
	Automated CDI image optimization	Yes
	Automated PW Doppler image optimization	Yes
	TOUCH SCREEN	YES, NO
	Monitor display size, cm (in)	12 Inch(±1), 15 Inch(±1), 19 Inch(±1), 21 Inch(±1)
	Split screen	TWIN VIEW
	Single/dual monitors	SINGLE
	Speckle-tracking strain and strain rate	Yes
	Stress echo	Yes, No
	Analysis and calculation packages	2-D wall motion tracking, 3-D wall motion tracking, cardiac, mitral valve analysis, user-programmable calculations
	DVD/CD Writer	Yes
	Type of printer provided with the echo cardio machine	THERMAL PRINTER, LASER PRINTER
	Provision of PC with echo cardio gram machine	Yes
	Type of processor	1.7 OR LATEST, NA
	RAM capacity of PC in GB (hint: In caase PC not provided put zero)	>=4, NA
	Processor speed in GHZ	>=3, NA
	Frame Grabber incorporated	Yes, No
Conectivity between Echo cardiogram and PC	Through IMS/EQUIVALENT SOFTWARE, NA	

Specification	Specification Name	Bid Requirement (Allowed Values)
	PC with all software inclusive interfaced with echocardiograph machine	YES, NA
	laser Color printer provided with computer for rerporting	Yes, No
	Inkjet printer provided with computer for reporting	Yes, No
	CD/DVD Produced should be playable on any system	YES
	Glossy Colour Print Paper supplied	Not provided
	ECG Cable	2
	Echo cardiography sytem to be DICOM Ready	Yes
	Dicom Interfacability to HIS	Yes
	Dicom Interfacability Dicom to PACS	Yes
	Interfacability Dicom to RIS	Yes
Power Requirments	Resettable over current breaker shall be fitted for protection	Yes, No
	Power bakup	UPS, INBUILT BATTERY
	Back up time in minutes	30, 60
Miscellaneous Parameters	Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	3, 5, 1, 2, 4
	Number of installations of the echo cardiogram machines in Central /State/PSU Govt Hospitals(Note: Seller should supply a performace certificate of the device to the buyer if demanded after placement of order)	No installation, UPTO 3, MORE THAN 3

Comprehensive Maintenance

Warranty of required product	3 Year
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Comprehensive Maintenance

Comprehensive Maintenance Duration (Post Warranty)

7 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 (1 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
1)TTE Probe Type 2)TEE Adult Probe biplane and Multiplane frequency, in MHz 3)Linear Probe for linear/ vascular applications	1)Adult 2) 2-8 MHz 3)Not required
1)Adult/Pediatric Linear probe frequency in MHz 2)No of Pediatric TTE Probes supplied 3)No of Adult TEE Probes supplied 4)Dedicated 3D/4D volume imaging for cadiology TTE ad TEE 5)Live 3 D imaging in color doppler system	1)Not Applicable)Not required 3)1 4)Required 5)Required
1)Provision of Tissue Colorization (B-Colour) for improved contrast resolution 2)Frame grabber facility for post analysis 3)Cardiac 3D/4D automatic Option 4)Contrast Harmonic/Agent Imaging with angio mode 5)Tissue synchronization, tissue velocity	1)Required 2)Required 3)Required 4)Not required 5)Not required
1)Monitor display size, cm (in) 2)Stress echo 3)Type of printer provided with the echo cardio machine 4)Provision of PC with echo cardio gram machine 5)Type of processor 6)RAM capacity of PC in GB 7)Frame Grabber incorporated	1)21 Inch(±1) 2)Not required 3)Not required 4)Laptop required 5)Intel Core required 6)16 GB 7)Required
1)Conectivity between Echo cardiogram and PC 2)PC with all software inclusive interfaced with echocardiograph machine 3)laser Color printer provided with computer for rerporting 4)CD/DVD Produced should be playable on any system	1)Through IMS/EQUIVALENT SOFTWARE 2)Required 3)Required 4)DVD Writer required

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

Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	80%
Min Cost Allocation for ICT as a % of product cost	20%
Number of days allowed for ICT after site readiness communication to seller	90 Days

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Shiju V S	695011,Sree Chitra Tirunal Institute For Medical Science and Technology,Medical College PO, Trivandrum	1	15

Buyer Added Bid Specific Terms and Conditions

1. 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.

2. 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.

3. 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 (Name of the Buyer). 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

4. 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.

5. Generic

Bidders shall quote only those products 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.

6. 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.

7. **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 %.

8. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

9. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

10. **Financial Criteria**

NET WORTH: Net Worth of the OEM should be positive as per the last audited financial statement.

11. **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.

12. **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.

13. **Generic**

Upload Manufacturer authorization: Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

14. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

15. **Buyer Added Bid Specific ATC**

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

16. **Warranty**

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

17. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

- A.** Bidders are advised to quote prices as per technical specification.
- B.** 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”. (A line of confirmation should be submitted along with the bid document.)
- C.** The bidder should submit a declaration confirming that the Product Cost/ Total Cost does not include warranty charges other than OEM Warranty. If any charges claimed by the bidder towards three years warranty which is included in the product cost/total cost should be indicated in the declaration form. Aforesaid declaration should be submitted along with technical bid. On request split up of warranty cost (year wise) shall be provided by the bidder after price bid opening.
- D.** As per Institute policy CAMC should be a maximum of 5 % of equipment cost and escalation, if any (maximum 5 %) should be considered once in every three years. CAMC charges should be calculated excluding the extended warranty cost, if any, and GST of the equipment.
- E.** The supplier shall enter into CAMC with SCTIMST, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.
- F.** Liquidated Damages:

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:

- a. Imposition of liquidated damages,
 - b. Forfeiture of its Performance Security and
 - c. Termination of the Contract for default
- G.** The bidder should submit Manufacturer’s Authorisation Form as per the format enclosed in ATC.
 - H.** Bidder has to demonstrate the equipment Online/Offline on request.
 - I.** Bidders should comply the GOI Order **No. F.No.6/18/2019-PPD dtd 23.07.2020** . A declaration with regard to this OM should be submitted along with technical bid.

BIDDERS SHOULD ALSO COMPLY THE FOLLOWING SPECIFICATIONS AS PART OF TECHNICAL SPECIFICATION

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Ø Adult 3D/4D/Live 3D transthoracic echocardiography Matrix probe 1 - 5 ± 1 MHz for adult cardiac imaging. Must have tissue harmonic imaging.

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Ø TEE 3D probe should have following modes: Biplane 2D echocardiography imaging, single-beat and ECG-gated multi-beat acquisition of 3D/4D volumes and rendering, 3D zoom, and color full volume, Single-beat high volume rate acquisition.

Ø Contrast imaging should be offered on the system, with optimization for LOW and HI MI applications .

Ø System should have an OLED monitoring screen.

Ø Rendering MPR views, 3D slice planes. Volume rendering, surface rendering. Single button - spatial resolution (pyramidal image size), temporal resolution (FR), and RT imaging, Manipulation of the 3D image, by rotating and cropping, for appropriate software to quantify the valvular structure

Ø Provision of PC with echocardiogram machine: We have asked for a laptop with following specifications: A portable laptop should be provided from a branded manufacturer with at least 512 GBSSD hard disk, intel core i7 8th generation or higher processor, 16 GB or more RAM, flat panel 14 inches or larger screen, 2 or more USB-3 ports, image & graphic softwares, latest original version of Microsoft office home/student one-time purchase and original windows 10 or higher, carry bag (original company made preferable), 3-year extended warranty. The licensed software should be loaded for offline processing of 3D/4D dataset, color 3D, strain quantification, 2D speckle tracking, etc, same as that loaded in the echocardiography system. Suitable antivirus for the system to be provided for as multiple insertions of USB have the potential to harm the hard disk.

Ø Following TEE-specific analysis parameters should be provided: (I) LV volumes and LVEF by length, area, volume methods, including for biplane method. (II) Prosthetic aortic and mitral valve peak velocity, mean gradient, DVI, acceleration time, EOA, AT/ET, MV pressure half time (III) Valve stenosis and regurgitation (IV) TAPSE, MAPSE (V) MPI or TEI index (VI) dp/dt (VII) LVOT cardiac output (VIII) LV mass (IX) LVFAC (X) PISA mitral valve (XI) RVSP (XII) Diastolic function (XIII) Angle measurement (XIV) Heart rate (XV) LA size area (XVI) RA size area (XVII) Hepatic and pulmonary venous Doppler parameters. Those analytical features, which are not loaded by default, should be entered in the system manually.

Ø The system should be capable of 4D RV quantification.

Ø System should offer LIVE X-Plane (Bi-plane/tri-plane) imaging with manipulation of orthogonal planes - lateral, elevation plane and their rotation should be possible.

Ø Measurement tools and quantification for 3D/4D echocardiography imaging compatible with transesophageal echocardiography: Latest version of the built-in original vendor-licensed software for 3D/4D acquisition; 3D/4D left ventricular quantification using Voxel count or similar algorithms, including segmental time-volume curves, semi-automated endocardial border tracing, Left ventricular volumes and

ejection fraction, color-coded bull's eye rendering of time-volume curves, parametric imaging, fully automated tracing of left ventricular endocardial border with LV quantification in transesophageal echocardiography; 3D/4D software for measurements of dimensions, area and volumes; Quantification tool for automated quick measurement of LVEF by border tracing method ; Quantification tool for illumination of mitral valve using 3D/4D rendering, compatible with TEE; Quantification tool for automated quick quantification of 2D LV longitudinal strain, LA strain and RV strain; 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, which is compatible with transesophageal/transthoracic echocardiography; LA strain using 2D speckle tracking to measure LA reservoir function, conduit function and contractile function, compatible with transesophageal/transthoracic echocardiography.

- Ø System should have 1 Terabyte(1TB) in-built hard disk capacity.
- Ø Standalone machine system should be supplied with height adjustable original cart with wheel locking and swivel facility for portability.
- Ø Accessories to be supplied with each machine: 3 lead ECG cable- 2 pcs; TEE probe tip protector; Bite guard- Adult- 5; Connecting cable transferring ECG signals from the monitor/defibrillator to echo machine- 2nos; TEE probe disinfection tray/basin- 2 nos.
- Ø Contrast-enhanced ultra sound (CEUS) option required
- Ø The echocardiography system should have not been launched world-wide more than 6 years prior to the date of installation in the Institute. A line confirmation with regard to the same should be submitted by the bidder.
- Ø Tissue Doppler imaging compatible with TEE.

18. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity/restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and/or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. 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 within 4 days of bid publication on GeM. 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. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

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 10 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 A10 are to be indicated for 6th to 10th 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=

$C + C * \left\{ \frac{A1}{100} / (1.10^n) + \frac{A2}{100} / (1.10^{n+1}) + \frac{A3}{100} / (1.10^{n+2}) + \frac{A4}{100} / (1.10^{n+3}) + \frac{A5}{100} / (1.10^{n+4}) \right\}$ 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 10% of cost of equipment.

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 5% 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.

[This Bid is also governed by the General Terms and Conditions](#)

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.

---Thank You---