

07.06.2022

Pre- Bid Query Reply**Sub: Pre Bid Query Reply to the bidders for referred Bid No.**

Ref.: Bid No: GEM/2022/B/2118792, GEM/2022/B/2118749, GEM/2022/B/2118681, GEM/2022/B/2118592, GEM/2022/B/2118572, GEM/2022/B/2118542, GEM/2022/B/2118521, GEM/2022/B/2118477, GEM/2022/B/2118447, GEM/2022/B/2118415, GEM/2022/B/2118385, GEM/2022/B/2118350, GEM/2022/B/2118338, GEM/2022/B/2118244 Dated 26.04.2022

Technical Query Reply

GeM tender ID: GEM/2022/B/2118792 dated 26.04.2022				
Item no 1- Single plane Cathlab with DSA				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para A.8	The C/G arm should be able to go to angulations automatically depending upon reference image	The C/G arm should be able to go to angulations manually/ automatically depending upon reference image Remarks: manual/Automatic Should be either of these options	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.
Para B.4	The table should have floating longitudinal, horizontal and vertical movements	The table should have floating longitudinal, horizontal and vertical movements It should have facility for motorized head end/ tilt facility of at least +/- 15 deg Justification: Since this is high end system Request you to kindly add as suggested special procedures	The table should have floating longitudinal, horizontal and vertical movements Added Para: It should have facility for motorized head end/ tilt facility of at least +/- 15 deg (Optional)	For better utility
Para D.2	Anode heat storage capacity at least 2.4 MHU or more	Anode heat storage capacity at least true/actual value of 2.4 MHU or more. It should not be an effective or calibrated value Justification: Please mention absolute value as effective value are not real measure of the anode heat storage capacity. Anode heat storage capacity at least 3.5 MHU or more	No change	

		Justification: All vendors have tubes with capacity of 3.5mHU or higher		
Para D.	NA	Request you to kindly add: System should have the latest technology like Flat emitter/ Grid switch facility to reduce the scattered radiation which can help for primary operator & staff. Justification: Request you to kindly add for the safety of the operator	No change	
Para D.	NA	Request you to kindly add: System should have the pulse fluoroscopy from 0,5 to 30 frames. (including 0.5,1, 2 , 3 4, 6 ,7.5, 10, 15,30) Justification: Dose is directly proportional to frame rate . Use of low frame rate helps to reduce dose drastically	No change	
Para D.	NA	Request you to kindly add: System should have the latest dose reduction package for to further reduce the dose (CLARITY IQ /BLUE PRINT/CARE & CLEAR) Justification: This option is available with all the vendors and is essential feature for the radiation safety of the operator and the patient. The same has been asked in the earlier HITES Cath Lab tenders as well.	Added para: System should have the latest dose reduction package for further reduce the dose (ALLURA CLARITY IQ /BLUE PRINT/CARE & CLEAR or Equivalent)	Departmental requirement
Para E.7	The system should have capability to acquire the images @ minimum 30 fps for pediatric application: adult cardiology 12.5-25: peripheral angio range (1-15fps)	The system should have capability to acquire the images @ minimum 25 fps for pediatric application: adult cardiology 12.5-25: peripheral angio range (1-15fps) Remarks: Minimum 25 fps for all applications	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.

Para F.4	Medical grade full high definition, either single (minimum 52") or multiple display to display live, reference, 3D,CT like image, Hemodynamic and EP waveforms	Medical grade full high definition, either single (minimum 55") or multiple display to display live, reference, 3D,CT like image, Hemodynamic and EP waveforms. It should be possible to have various display layouts from table side touch screen	No change	
Para F.6	In control room there should be data entry monitor, live monitor , hemodynamic monitor and one DICOM based or equivalent suitable work station capable of all review including 3D reconstruction , post processing and quantification of coronary and ventricular function in the control room. It should be possible to perform simultaneous off line post processing in control room.	Live Monitor and 3D reconstruction should be optional Remarks: Live monitor and 3D reconstruction should be optional	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.
Para F.12	On line acquisition & display of DSA images in 1024 x 1024 matrix with DSA post processing from table side control in exam room and control room. All 2D and 3D roadmapping/remodelling features should be offered	This should be optional as it is not standard feature of Cath lab	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.
Para F.13	Should have facility for stent enhancement operable from table side and control room	Should have facility for the latest stent enhancement including lumen subtraction feature (fade in fade out) operable from table side and control room	No change	
Para H.1	Cross sectional 3D images using 3D reconstruction algorithms for 3D reconstruction of chambers and vessels of heart should be possible	Cross sectional 3D images using 3D reconstruction algorithms for 3D reconstruction of chambers, Pulmonary Veins and vessels of heart should be possible Cross sectional 3D images	No change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential

		<p>using 3D reconstruction algorithms for 3D reconstruction of chambers and vessels of heart from CT Images should be possible.</p> <p>Justification: CT images are gold standard for reconstruction of Heart Chambers.</p>		for the performance of advanced procedures.
		<p>3D rotational angiography should be optional</p> <p>Remarks: We currently don't have 3D rotational angiography feature</p>		
Para H.2	The system should have ECG/angle triggered and untriggered 3D acquisition and processing capability	This feature should be optional	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.
Para H.4	3D roadmapping should be available. It should be possible to have TAVI guidance for TAVI procedures with landmark marking and overlay. TAVI guidance packages should be included	<p>3D roadmapping should be available. It should be possible to have TAVI guidance for TAVI procedures with landmark marking and overlay. TAVI guidance packages should be included and it should be possible from the rotational angiography data and pre-acquired CT data both</p> <p>2D roadmapping should be available. It should be preferable to have TAVI guidance for TAVI procedures with landmark marking and overlay. TAVI guidance packages should be included , if available</p> <p>Justification: TAVI guidance package can be made as optional as all Vave companies use third party software for Valve planning</p>	No change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.

		<p>and Guidance.</p> <p>Either it should be optional or equivalent software should be acceptable</p> <p>Remarks: We can provide 3 Mensio additional software for TAVI guidance for TAVI procedures at free of cost</p>		
Para I	HEMODYNAMIC AND EP STATION (Price to be quoted separately):	Separate price quotes for Hemodynamic and EP station as they are not standard feature or component of Cardiac Cath Lab. Or It should be optional accessories.	No Change	The machines are to be procured for upcoming AIIMS institutes and upgradation of GMCs and the feature is essential for the performance of advanced procedures.
	<p>Essential accessories:</p> <p>13. ETO sterilizer: of approved make at least 4.5 cu ft. – One (Price to be quoted separately)</p> <p>14. Intra-aortic balloon pump (IABP) system – One. State of art, latest, imported model with two gas cylinders and two balloons. (Price to be quoted separately)</p> <p>15. ABG Machine: One no. for measuring Hb, electrolytes, bicarbonate, Po2, Pco2 and oxygen saturation etc. during cardiac catheterization complete with all accessories like rinse solution, calibration solution etc for at least 100 procedures. (Price to be quoted separately)</p> <p>19. Anaesthesia Workstation: Compact three gas Anaesthesia workstation with an integrated Ventilator for infants/pediatric to adult</p>	<p>The prices for these accessories is asked to be quoted separately, kindly confirm if the same will be considered in the Ranking purpose for L1 evaluation. Accordingly, please confirm if these prices are to be quoted in the GeM portal which will be considered for L1 ranking.</p>	<p>Clarified during prebid as: The prices asked i.e Price to be quoted separately will be considered for price evaluation</p>	

	patients, Airway Monitor and Anaesthesia Monitor. (US FDA Approved/European CE with 4 digit notifying body no/BIS approved) . (Price to be quoted separately)			
Para J. 2	Cath lab also need to be provided with total 20 ton AC with voltage stabilizer. The AC may be distributed to the console room, Procedure room, equipment room and patient waiting area as per site requirement	Cath lab also need to be provided with total 25 ton AC with voltage stabilizer. The AC may be distributed to the console room, Procedure room, equipment room, patient waiting area and entire Cathlab complex under scope as per site requirement Justification: Please increase the AC Tonnage for adequate backup	Cath lab also need to be provided with total 25 ton AC with voltage stabilizer. The AC may be distributed to the console room, Procedure room, equipment room and patient waiting area as per site requirement	For better utility
	Site modification: 4. Site preparation should be time bound and completed before shipment of equipment and time to installation of the machine no more than 4 weeks (total time 90 days).	Site preparation should be done in 150 days after handing over of site for turnkey works along with AERB Approve layout plan Justification: Installation and delivery of machine will be considered as per request made in the delivery period clause in commercial clarification	No change	
	Site modification: 5. Cost of Site modification works for 1500 sq ft will be considered for ranking purpose; however payment will be made as per the actual site modification work done at site.	Please incorporate room wise layout plan in the tender as proposed area of 1500 sqft seems less to accommodate all rooms demanded in the tender	No change	
Para 14	Site modification: 3. The cost of Site modification for the area of 1500sq.ft and Air-conditioning of Tonnage 20 TR will be considered for Ranking / Evaluation purpose	Please provide the room wise layout plan as proposed area of 1500 sqft seems less to accommodate all rooms demanded in the tender	Site modification: 3. The cost of Site modification for the area of 1500sq.ft and Air-conditioning of Tonnage 25 TR will be considered for Ranking / Evaluation	For better utility

			purpose	
	a) Flooring 1.600 x 600 mm vitrified tiles/non porous high quality granite atleast 20 mm thickness with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.	600 x 600 mm vitrified tiles with 100mm tile skirting to match in entire area under scope apart Cath Lab equipment / UPS room. Justification Pls consider entire floor area under scope.	No change	
	b) Painting 1 Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, Cath Lab room & Equipment room etc.	600 x 600 mm vitrified tiles wall tiling to be done in Cathlab area entire area under scope Justification Wall tiling recommended for long lasting hygienic finish	b) Wall finishing 600 x 600 mm vitrified tiles wall tiling up to false ceiling to be done in entire Cathlab area under scope (patient preparation area, Lobby area, console room, Cath Lab room & Equipment room etc)	For better utility
	AIR CONDITIONING: Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day.	Ductable split air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day. Justification: Please change Ductable package air conditioners with Ductable split air conditioners for lesser space requirement.	No change	
	Furniture: 3. Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures sets, linen, trays etc under lock and	Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures sets, linen, trays etc under lock (Size 2x .9x .6 m) and key – 4 nos	Furniture: 3. Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures	For better clarity

	key – 4 nos	Justification; Please clarify the size	sets, linen, trays etc under lock and key – 5 nos	
	Furniture: 4. Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 Nos	Cupboard with laminate door shutters for storage of spare parts and accessories and (1x .6x .45 m) records as per requirement. – 3 Nos Justification; Please clarify the size	Furniture: 4. Cupboard with laminate door shutters for storage of spare parts and accessories and records (3 ft (W) x 6ft (H) x 2.5 ft (D)) as per requirement. – minimum 5 Nos	For better clarity

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118749 dated 26.04.2022				
Item no 2- Multiparameter Monitor				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 2.2	Capability of storage of patient data and printing of patient reports	Capability of storage of patient data and printing of trends. Justification: Company specific terms should be remove forwider participation	No change	
Para 3.1	Minimum 18 inches or more multicoloured TFT display	The bid is for Basic Para Monitors and based on the specifications, we request you kindly consider Monitor Screen Size 15” We request you to please change the screen sizeto 15 inches or more, as it is the standard screensize for monitors so that more no of bidders canparticipate in this bid Monitor should be light weight and have bright,clearly visible, 15 inch colour LED backlight display for easy viewing from a distance. Display capablity should be for up to 10 simultaneous waveforms Minimum 12 inches or more multicoloured TFT display. Justification: Kindly allow for wider participation Minimum 15 inches or more multicoloured TFT display. Request to amend Screen Size LED 15” Justification: Asked Specification are	No change	

		For Low End monitor so 15" screen Size is Sufficient for Low End Monitor, 18" Monitor Add high Cost.		
Para 3.2	Should have facility to monitor and display - ECG, NIBP, SpO2(Nellcor/Masimo), Temperature, Respiration and upgradable to ETCO2(Sidestream or Microstream) & IBP	We request you to kindly include IBP as a mandatory parameter instead of upgradable so that the teaching process can be enhanced more effectively and efficiently as AIIMS are one of the most premium teaching institutes in India. Upgradable to ETCO2, NMT (Sidestream or Microstream) & cardiac output	Should have facility to monitor and display - ECG, NIBP, IBP-2 , SpO2(Nellcor/Masimo), Temperature, Respiration and upgradable to ETCO2(Sidestream or Microstream)	User requirement
Para 3.11	Trend of at least 48 hours	Request to Amend Trend -168 Hours Justification: For better data review	No change	
Para 3.13	Should have inbuilt 2 Ch thermal recorder with selectable recording speed of 25 & 50 mm/sec	Request to Amend 3CH thermal recorder Justification: For view of 3 Waveforms We request you to please include 100 Qty of paper rolls for thermal printing so that the end user will not have to run out of stock for paper.	Should have inbuilt 3 Ch thermal recorder with selectable recording speed of 25 & 50 mm/sec Added para: Should provide paper rolls - 100 nos for thermal printing (Price should be quoted separately and the price will be frozen for warranty period).	User requirement
		Request to Add: Monitor should have Softwares like ST Analysis, ST Mapping, QT Analysis, HRV Analysis. Justification: It helps in enhance the monitoring of cardiac functioning of critical patients.	No change	
		Request to Add: Should be upgradeable to 12 Lead ECG & Demonstration of same should be given Justification: It helps in analysing of all 12 lead real time ECG on a single screen with other vital parameters.	No change	
		Request to Add: Monitor should store trends on Pen Drive and should open in computer without help of any proprietary software Justification: It gives user more	No change	

		flexibility for medico legal record storage in computer and can be viewed without any help of software.		
	BOQ 3: 2 Channel recorder - 1 No	As per prebid discussion	BOQ 3: 3 Channel recorder with 100 nos paper rolls - 1 No	For better clarity

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118681 dated 26.04.2022				
Item no 3- Defibrillator with CPR monitoring and TC pacing				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 3	Screen size minimum 6 inches diagonal	Screen size minimum 8 inch or more diagonal Justification: All good brands have 8 inch screen for better view	No change	
Para 7	It should have ability to measure chest compression rate and depth in real time with both visual & audible feedback	Kindly remove this point Justification: Company specific terms should be removed for wider participation	Deleted	For wider participation
Para 9	The unit should do self test daily with facility to give print out of defibrillator testing report and also have code ready indicator on unit	The unit should have self test/system check with facility to give print out of defibrillator testing report. Justification: Kindly allow for wider participation	No change	
Para 14.4	In addition to standard accessories following items have to be supplied with unit Reusable CPR feedback sensor/ or similar product - 1No	Kindly remove this point Justification: Company specific terms should be removed for wider participation	Deleted	For wider participation
	(BOQ- 10) Reusable CPR feedback sensor/ or similar product	As per prebid discussion	Deleted	For wider participation

GeM tender ID: GEM/2022/B/2118592 dated 26.04.2022				
Item no 4- Syringe Infusion Pump				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 2	Must Work on commonly available standard 5ml/10ml/20ml/50ml/60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition	Must Work on commonly available standard 2ml / 5ml / 10ml / 20ml / 50ml /60 ml syringes with an accuracy of +/-2% or better, with automatic syringe size recognition	No change	
Para 4	Flow rate programmable from 0.1 to 1000 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF	Flow rate programmable from 0.1 to 2000ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. Facility for saving last infusion rate even when the AC power is switched OFF	No change	
Para 5	Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered/programmable bolus should be available	<p>Bolus Mode : Manual & Automatic Bolus rate should be programmable to 0.1ml/hr to 2000ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered/ programmable bolus should be available</p> <p>For Wider and Heathier Participation,we Request to Delete " Reminder audio after every 1 ml delivered/programmable bolus should be available" this Point</p> <p>Justification This is Company Specific Parameter, available with one or two company, which is limiting the competition For Wider and Heathier Participation, we Request to Delete this Point</p>	No change	
Para 9	Selectable Occlusion pressure	Selectable Occlusion pressure	No change	

	trigger levels selectable from 300/500/900 mmHg. or atleast 3 selectable levels	trigger levels selectable from 300/500/900 mmHg or atleast 10 selectable levels (50mmHg –1000mmHg)		
Para 14	Rechargeable Battery having at least 4hours backup for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred	Rechargeable Battery having 8 hours or more battery backup at the rate of 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.	No change	
Para 15	Mounting device/ Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole (Price to be quoted separately)	Mounting device/Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole (Price to be quoted separately, which will be used for priceevaluation and ranking purposes) Please mentioned the Qty. For Ranking purpose	Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord (Unit Price to be quoted separately and price for 75 nos of docking station will be considered for ranking purpose)	For better clarity
	Additional points:	Additional points: Applicable syringe sizes from 2,5,10,20,30 & 50 ml syringes with custom type syringes calibration options Justification: For faster occlusion & safer infusion different sizes must be applicable to support critical applications	No change	
		Flow rate can be 0.1 to 3000 ml/hr Justification: Faster infusion can be achieved	No change	
	Additional points:	Power Consumption-7 W Justification: It consumes less power when compared to other Syringe Pumps	No change	
	Additional points:	1000 history records can be stored with	No change	

		<p>RTC time</p> <p>Justification: viewable history of records in machine itself for recording the medication process & events</p>		
	Additional points:	<p>Occlusion Limit Pre-alarm need to be added</p> <p>Justification: Occlusion pre-alarm is a warning required for syringe infusion pump to solve the occlusion possibilities & to avoid reaching the occlusion limit. Using this warning we can avoid the infusion interruption</p>	No change	
	Additional points:	<p>Adjustable Near empty to end alarm time from 3 minutes to 30 minutes</p> <p>Justification: this is required as adjustable time settings to perform safer medication with half life drugs & critical operation drugs</p>	No change	
	Additional points:	<p>Standby option - pause facility upto 24 hours minimum 1 minute</p> <p>Justification: Pause infusion facility to apply continues infusion with multiple pumps one a cascade infusion</p>	No change	
	Additional points:	<p>Inline changing of delivery rate possible during infusion</p> <p>Justification: emergency or instant change of flow rate without stopping infusion may required. So this feature need to be applicable</p>	No change	
	Additional points:	<p>RS232 or wifi communication CPMS</p> <p>Justification: using RS232 or WIFI with mobile android</p>	No change	

		application to view the status of pumps from nurse station or remote stations in hospital - for HIS communication		
	Additional points:	Sequential program mode with minimum of 5 modes Justification: Possible to program Ramp up taper down with different modes of different values. With more than 5 modes	No change	
	Additional points:	Easy upgradable to PCA Justification: Pain relief drug application can achieved by PCA switch application it should be upgradable to all pumps	No change	
	NA	Request to add Following Modes of Infusion- Rate Mode, Volume-Time, Dosage Mode, R-T Mode, Loading Dose, Sequence Mode, Intermittent Mode, Ramping Mode, Relay Mode	No change	
	BOQ: 2. Docking station - 1 No	As per prebid discussion	BOQ: 2. Docking station (Unit Price to be quoted separately and price for 75 nos of docking station will be considered for ranking purpose) - 1 No	For better clarity

GeM tender ID: GEM/2022/B/2118572 dated 26.04.2022				
Item no 5- Portable Echocardiography System				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 5	Should have flat panel high resolution display monitor minimum 15 inch LED/LCD monitor	The system must have integrated high resolution TFT /LCD/LED of 10-12" Justification: With reference to monitor dimensions, effective scan area remains comparable for portable	No change	

		color Doppler systems, irrespective of overall size of display. Moreover, being a portable system, optimized size of display is a tradeoff for good battery backup & for true mobility of system.		
Para 8	Should have maximum color Doppler frame rate of 750fps .Should have an on –board workstation for storage and review of all exams i.e. 2D Doppler, Loops etc	Please omit this point Justification: Frame rate varies & depends upon scan area, probe, exam type & other several factors which can be manipulated by adjusting different imaging parameters. Also, due to architectural design difference we don't have a provision to display frame rate on our systems. So please omit for wider participation from reputable ultrasound manufacturers	No change	
Para 10	Should have a large hard disk capacity at least 500GB to store patient data into the hard drive and 5TB External hard disk to be provided	Should have a large hard disk capacity at least 500GB/16 GB Flash card to store patient data into the hard drive and 5TB External hard disk to be provided. Justification: Internal Flash card memory is reliable and prevent the system from Mechanical vibration, virus & not prone to failure. 16 GB memory is enough to store 60000 images as well.	Should have a large hard disk capacity at least 1 TB to store patient data into the hard drive and 5TB External hard disk to be provided	For better utility
Para 11	Should be able to transfer images and clips to CD and DVD media	Should be able to transfer images and clips to USB / CD and DVD media. Justification:CD / DVD media has gone obsolete in today technology. Availability of USB port is another convenient way for easy & quick data transfer	Should be able to transfer images and clips to CD and DVD media or USB	For wider participation
Para 12	The quoted echo machine should be compatible with use of Intracardiac catheter for ultrasound (ICE).	Please omit this point. Justification: Please omit this point as this could be company specific	The quoted echo machine should be compatible with use of Intracardiac catheter for ultrasound (ICE) (Optional)	For wider participation

Para 18	TEE probe for adult and pediatric echocardiography (should be quoted as standard)	Please omit TEE probe for pediatric echocardiography Justification: Please omit for wider participation	No change	
Para 19	4D TEE adult probe with appropriate 4D software (Optional)	Please omit Justification: Please omit for wider participation	No change	
Para 20	The system should be capable of performing Stress, Strain and Contrast Echo	Please omit this point Justification: Please omit for wider participation	No change	
Para 21	Battery backup of minimum 30 min.	Battery backup of minimum 120 min. Justification: Suggest having 120 minutes inbuilt battery backup with the system when it's challenging to locate direct power and plug/socket is not available within reach to handle critical situations in hospitals	Battery backup of minimum 120 min.	For better utility

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118542 dated 26.04.2022				
Item no 6- High End Echocardiography system (4D ECHO)				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 4	System must be offered with a minimum 21 inch high resolution OLED flat panel medical grade display monitor with infinite position adjustments. Company should provide wider monitor if available	Offered with a minimum 22 inch high resolution Justification: OLED is phasing out technology, request to remove specific to OLED and change size to 22 inch which available with all 4D Echo vendors	No change	
Para 8	Image storage facility on in build hard disc or MOD/CD/DVD-RW facility should be available. Inbuilt hard disk with capacity of 500 GB. System should have extensive image capability including thumb nail review, Cine loop editing etc. management. System must be supplied with 5TB	Inbuilt hard disk with capacity of 1TB SSD Hard disk. Justification: 4D Data needs to process matrix of channels. SSD hard disk helps in faster processing.	Image storage facility on in build hard disc or MOD/CD/DVD-RW facility should be available. Inbuilt hard disk with capacity of 1TB SSD . System should have extensive image capability including thumb nail review,	For better utility

	external hard disk		Cine loop editing etc.management. System must be supplied with 5TB external hard disk	
Para 9	System must be offered with speckle reduction Imaging: Image processing technique to remove speckles and clutter artifacts	Image processing technique to remove speckles and clutter artifacts. Software beamformer technology should be offered Justification: Latest addition to improve the Signal to noise ratio and would request for highest specs only to be quoted	No change	
Para 12	Should be able to perform advanced quantification measurements like strain & Strain rate quantification. Should measure the myocardial velocity and derives the strain rate and strain along user-defined M-lines, Capable of drawing up to 3 M-lines at a time, Capable of sub-dividing each M-line into 8 sub-regions or according to user-defined sub-region sizes, Point of interest tool obtains values from any point on the M- mode display. In addition to the tissue Doppler based strain system should have 2D based strain like VVI, AFT and TMQ should be offered. These should be offered both on the system and on a licensed workstation. OFF-CART workstation (both licensed hardware and licensed software) should be quoted and highlighted in the technical bid	In addition to the tissue Doppler based strain system should have 2D based strain like VVI, AFI and TMQ should be offered Justification: AFI is the technology name with a typo error of AFT. Request to kindly rectify.	Should be able to perform advanced quantification measurements like strain & Strain rate quantification. Should measure the myocardial velocity and derives the strain rate and strain along user-defined M-lines, Capable of drawing up to 3 M-lines at a time, Capable of sub-dividing each M-line into 8 sub-regions or according to user-defined sub-region sizes, Point of interest tool obtains values from any point on the M- mode display. In addition to the tissue Doppler based strain system should have 2D based strain like VVI, AFI and TMQ should be offered. These should be offered both on the system and on a licensed workstation. OFF-CART workstation (both licensed hardware and	For better clarity

			licensed software) should be quoted and highlighted in the technical bid	
Para 13	2D speckle tracking.	2D speckle tracking for LA, LV and RV with Volume, TAPSE and EF Justification: Latest addition to improve the clinical tools and would request for highest specs only to be quoted	2D speckle tracking for LA, LV and RV with Volume, TAPSE and EF	For better utility
Para 15	Should be able to perform MPR views for quantification from 3D Imaging on volume measurements like LV volumes, Ejection fraction from 3D Image, etc. Also should offer synchronicity indicates to measure and compare timing of maximum contraction of LV volumes to determine those patients who will best benefit from CRT system. Should display global LV volume and should provide simultaneous display of 17 regional volume waveform. This should be offered both on the system and on a licensed work station (both licensed hardware and licensed software) should be offered and highlighted in the technical bid.	Should display global LV volume and should provide simultaneous display of 17 regional volume/Strain waveform Justification: To comply as we have regional strain not volume	No change	
Para 20	Latest PC (off-cart workstation) with permanent licence software for analysing and quantification of 2D and 3D data sets like Strain and Strain rate imaging, Tissue Motion Annular Displacement, Mitral valve 3D data sets, 2D Speckel tracking. CD/DVD writer with Image management software and colour laser Printer. PC should be offered with a flat panel 17" display monitor, 1	Latest PC (off-cart workstation) Echopac/Tomtec with permanent licence software for analysing and quantification of 2D and 3D data sets like Strain and Strain rate imaging, Tissue Motion Annular Displacement, Mitral valve 3D data sets, 2D Speckel tracking. CD/DVD writer with Image management software and colour laser Printer. PC should be offered with a flat panel 17" display monitor, 1 TB HDD, i7 processor, 8 GB RAM. (hardware essential for OFF cart	Latest PC (off-cart workstation) with permanent licence software for analysing and quantification of 2D and 3D data sets like Strain and Strain rate imaging, Tissue Motion Annular Displacement, Mitral valve 3D data sets, 2D Speckel tracking. CD/DVD writer with Image management software and colour	For better utility

	TB HDD, i7 processor, 8 GB RAM. (hardware essential for OFF cart quantification)	quantification) Justification: Latest Specs and top end technology only quoted	laser Printer. PC should be offered with a flat panel 17" display monitor, 1 TB SSD , i7 processor, 16 GB RAM . (hardware essential for OFF cart quantification)	
Para 21.1	4D (Live 3D) Echo matrix transducer for adult 4D (Live 3D) with frequency ranging from 1-5±1 MHz. This probe must support for exceptional 4D (Live 3D) image quality on the matrix array transducer to simultaneous display of two real-time live high-quality image planes. This transducer should have either single crystal technology or pure wave technology or matrix technology for excellent Image quality on difficult to image patient. Please mention the crystal technology used in the transducer. Systems offered with normal transducers for adult echo are liable for rejection.	4D (Live 3D) Echo matrix transducer for adult 4D (Live 3D) with frequency ranging from 1-5±1 MHz with wide apex . Justification: Latest Transducer working with software beamforming , as older probe is not supporting the latest upgradataion. So to ensure all quoting the latest only	No change	
Para 21.5	4D (3D) Echo matrix TEE transducer for Adult 4D (3D) with frequency ranging from 2-7 MHz. Please quote prices of all probes separately also	4D (3D) Echo matrix TEE transducer for Adult 4D (3D) with frequency ranging from upto 8 MHz with customisable tee probe button. Justification: To ensure that latest probe only quoted from the latest vendors	No change	
		to be added: AI Tools like Auto measure 2D , Cardiac Auto Doppler, AI based speckle tracking available with vendor Justification: To Incorporate latest tools as standard	No change	
		to be added: CT/Flouro integration	Added under Para 12:	For better utility

		Justification: Fusion may helps in Structural heart intervention.	CT/Flouro integration (Optional)	
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Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118521 dated 26.04.2022				
Item no 7- Suction Machine				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 1.1	Should be noiseless & should have fast vacuum build up	we would like to request that for noiseless, some noise level needs to be documented and for noiseless it must be lower than 45dB	No change	
Para 1.3	Suction capacity should be 50-60L/min & twin bottle capacity of 3L each	kindly clarify do you need autoclaveable 3L bottles, if yes then that needs to be clearly mentioned as autoclave able andunbreakable bottles are of poly sulphone material and that needs to be clearly mentioned/specified	Suction capacity should be 50-60L/min & twin bottle (autoclavable poly carbonate/poly suphonate) capacity of 3L each	For better clarity
Para 3.4	Manufacturer should be ISO 13485 certified.	ISO 13485 is not a product quality certification, it's for the manufacturing facility, we would request that along with ISO13485 which should be from notified body, other product related certificates must be asked like European CE from notifiedbody or USFDA	No change	

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118477 dated 26.04.2022				
Item no 08- 12 Channel ECG Machine				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 1	Twelve channel 5" or more LCD display for all 12 leads along with on screen details.	Twelve channel 7" or more Tilted LCD display for all 12 leads along with on screen details Justification: 5inch will be too small to view all the 12 leads and patient data. Tilted will help the technician work ergonomically	Twelve channel 7" or more LCD display for all 12 leads along with on screen details.	For better utility

		enabling to perform more ECGs easily and quickly		
Para 3	Recording speed selection of 5, 10/ 12.5, 25 and 50 mm/sec	Recording speed selection of 12.5, 25 and 50 mm/sec. Justification: Please amend this point for wider participation.	No change	
Para 4	Sensitivity of 2.5,5,10,20 mm /mV. It should also have AGC (Automatic Gain Control)	Sensitivity of 5, 10, 20 mm/mV. It should also have AGC (Automatic Gain Control) Justification: Please amend this point for wider participation.	No change	
Para 8	Interpretation software.	ECG Machine should provide Age and Gender specific interpretation with reasoning statements. System should have atleast 1500 statements / arrhythmia detection Justification: Having just an interpretation software to identify very few arrhythmias wont help clinician. Also the reasoning statements (Example : Sinus Tachycardias because HR is more than 100) builds clinical confidence on interpretation	No change	
Para 9	Mains and in built rechargeable battery backup atleast 2 hrs/ 30 ECG	Battery back for atleast 150 ECGs Justification: 30 ECG back up is too small for ECG machines, as ECGs are always acquired on battery, so having higher back up supports for more ECGs without need for AC power	No change	
		Suggestion to Add:- Should have sampling frequency 32000 Hz Justification: All good brands have 32000 Hz or more sampling frequency.	No change	
		Suggestion to Add:- Machine should be supplied with lockable castor wheel trolley of good quality . Justification: For easy transport	Added Para: Machine should be supplied with trolley made up of SS 304 with lockable castors	For better utility

		Suggestion to Add:- Machine should be supply with paper rolls - 100 nos	No change	
		As per prebid discussion	Added in BOQ: 4. Trolley made of SS 304 - 1 No	For better utility

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118447 dated 26.04.2022				
Item no 9 - Mobile Spot Light				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 1	To provide cool, intense, focused light of 5000 lux	To provide cool, intense, focused light 5,000 lux ~ 25,000 lux Justification: For better illumination	To provide cool, intense, focused light of 5000 lux or more	For wider participation
Para 2	Should be halogen bulb of 50/75 W at low voltage, Step down transformer (compact) mounted inside the head	Should be LED Lamp, Step down transformer (compact) mounted inside the head. Justification: Halogen lamp are out dated	Should be halogen bulb of 50/75 W at low voltage or LED lamp , Step down transformer (compact) mounted inside the head	For wider participation
Para 3	Should have bulb retainer to prevent accidental unplugging and fall.	Delete Justification: Halogen lamp are out dated and led has a lamp life of 50000 hrs compare to 7000 hrs a Halogen Lamp	Should have bulb retainer to prevent accidental unplugging and fall (in case of Halogen lamp)	For wider participation

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118415 dated 26.04.2022				
Item no 10- Holter system with work station				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 2	The system should have the capability to acquire/analyse 12 lead ECG derived out of 3 or more Channel using 5 or more electrodes for 48-72 Hrs with facility to display/print 12 lead ECG at any point of time.	The system should have the capability to acquire/analyse 12 and 3 lead ECG using the same recorder using 5 or 10 lead patient cable for 24Hrs and 48 Hrs,	The system should have the capability to acquire/analyse 12 lead ECG derived out of 3 or more Channel using 5 or more electrodes for upto 7 days (168 Hrs) with facility to display/print 12 lead	For better utility

		<p>upto 7 days (168 Hrs). With facility to display/print 12 lead ECG at any point of time</p> <p>Reason:It is an advanced feature in holter recording system and cost effective to use single recorder for both facility of 12 and 3 channel recording using the same recorder for up to 7 days .</p> <p>The system should have the capability to acquire/analyse 12 lead ECG derived out of 3 Channel using 5 electrodes using 10 electrodes for 48Hrs to facility to display/print 12 lead ECG at any point of time.</p> <p>Justification: Derived ECG is not equivalent to True 12 lead ECG. Real 12 lead ECG can only be acquired by using 10 electrodes. Also request to change the duration to 48 Hrs</p>	ECG at any point of time.	
Para 7.c	T wave alternans	<p>Deleted</p> <p>Reason:Since "T-Wave alternans" is a feature available only with GE Medical, it is a proprietary spec. Hence should be amended</p> <p>Request " Not to delete"</p> <p>Justification: This is sudden cardiac death detection algorithm that helps clinician to risk stratify the patients who are at risk of sudden cardiac death</p> <p>T wave alternans/ST analysis</p> <p>Justification: Please amend this point for wider participation</p>	T wave alternans or equivalent parameter (Optional)	For wider participation

Para 7.d	Heart rate turbulence	Deleted Reason:Since "Heart rate turbulence" is a feature available only with GE Medical, it is a proprietary spec. Hence should be amended Request " Not to delete" Justification: This is sudden cardiac death detection algorithm that helps clinician to risk stratify the patients who are at risk of sudden cardiac death	Heart rate turbulence or equivalent parameter (Optional)	For wider participation
Para 11	QT analysis with validation	Deleted Reason:This is a repeat specas it has been already asked under Sr#7b	No change	
Para 15.f	Shape	Deleted Reason:This spec is not clear as to what does shape mean	Deleted	For wider participation
Para 15.j	TWA alternans analysis	Deleted Reason:Since "T-Wave alternans" is a feature available only with GE Medical, it is a proprietary spec. Hence should be amended TWA alternans analysis/ST analysis Justification: Please amend this point for wider participation	Deleted	For wider participation
Para 17.1	3 Digital recorder should have 128 samples/sec/channel for recording and storage 1000/sec/channel for VLP	3 Digital recorder should have 128 samples/sec/channel for recording Justification: storage 1000/sec/channel for VLP to be deleted as this is available with specific company Request for clarification as to what is VLP?	3 Digital recorder should have 128 samples/sec/channel for recording	For better clarity
Para 19	Product should be European CE with 4 digit notifying body no/USFDA/BIS Approved. Certificate to be provided	The Holter system should be US FDA approved and European CE Certified (with 4 digit notified body	No change	

		<p>number)</p> <p>Reason:All standard and reputed manufacturers of holter monitoring systems are both US FDA approved and European CE Certified. This ensures that the product is properly validated and international standards</p>		
		<p>Request to Add: Recorder should have minimum 32000 sampling frequency</p> <p>Justification: High sampling frequency is required for Pacemaker detection.</p>	No change	
		<p>Request to Add: Should be able to record atleast upto 10 days for selective patient</p> <p>Justification: This is the feature which make the recorder as a loop recorder and for prolonged holter monitoring in selective patient</p>	No change	
		<p>Request to Add: Should have Heart Rate Variability in time and frequency domain</p> <p>Justification: (1) Time domain indexes are the first used indexes and simplest way to calculate HRV, because they are statistical calculations of consecutive RR intervals. (2) Frequency domain indexes are more elaborated indexes based on spectral analysis, mostly used to evaluate the contribution on HRV of autonomic nervous system (VLF, LF, HF, HF/LF ratio). So measurement of HRV through Frequency domain is much accurate than Time Domain</p>	No change	

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118385 dated 26.04.2022				
Item no 11- TMT Machine (Stress test system)				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 1.1	Exercise stress testing systems offer a wide array of unique diagnostic software options to evaluate myocardial function. Automatic arrhythmia detection, ST-segment analysis, and T-wave alternans are a few examples. In conjunction with a treadmill or ergometer, these systems provide a controlled environment for the observation of the effects of increases in myocardial oxygen demand: exercise-induced systolic hypotension, exercise-induced angina, and/or the appearance of a heart murmur during exercise.	<p>Exercise stress testing systems offer a wide array of unique diagnostic software options to evaluate myocardial function. Automatic arrhythmia detection, ST-segment analysis are few examples. In conjunction with a treadmill or ergometer, these systems provide a controlled environment for the observation of the effects of increases in myocardial oxygen demand: exercise-induced systolic hypotension, exercise-induced angina, and/or the appearance of a heart murmur during exercise</p> <p>Reason: Since "T-Wave alternans" is a feature available only with GE Medical, it is a proprietary spec. Hence should be amended</p>	Exercise stress testing systems offer a wide array of unique diagnostic software options to evaluate myocardial function. Automatic arrhythmia detection, ST-segment analysis, and (T-wave alternans or equivalent parameter) are a few examples. In conjunction with a treadmill or ergometer, these systems provide a controlled environment for the observation of the effects of increases in myocardial oxygen demand: exercise-induced systolic hypotension, exercise-induced angina, and/or the appearance of a heart murmur during exercise.	For wider participation
		Exercise stress testing systems offer a wide array of unique diagnostic software options to evaluate myocardial function. Automatic arrhythmia detection and ST segment analysis are a few examples. In conjunction with a treadmill or ergometer, these systems provide a controlled environment for the observation of the effects of increases in myocardial oxygen demand: exercise induced systolic hypotension, exercise-induced angina,		

		and/or the appearance of a heart murmur during exercise. Justification: Kindly remove T-wave alternans for wider participation.		
Para 2.1	complete system with latest PC , Storage,& Software, TMT and necessary cables required with digital Wired/wireless ECG transmission module	Complete system with latest PC, Storage & Software, TMT and necessary cables required with digital radio-frequency based wireless ECG transmission module. It should be possible to get an excellent quality ECG signal from the Wireless ECG acquisition module from a distance of 10 meters Reason: Radio- frequency based digital wireless patient module provides excellent quality ECG signal without artifacts and enables comfort and movement of the patient for other tests and patient preparation in case of female patients etc.	No change	
Para 3.1	System should acquire and analyze 12 leads.	Kindly remove this point Justification: For wider participation	No change	
Para 4	Defibrillator	TO BE DELETED Reason: Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.1	Defibrillator should be Bi-Phasic, light weight and latest model	TO BE DELETED Reason: Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.2	Should monitor vital parameters and display them	TO BE DELETED Reason: Defibrillators to be	No change	

		procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators		
Para 4.3	Should print the ECG on thermal recorders	TO BE DELETED Reason: Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.4	Should work on both Manual mode upto 200J or more and Automated external defibrillation (AED) mode up to 150 J or more	TO BE DELETED Reason:Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.5	Should be capable of doing synchronized & asynchronized cardioversion	TO BE DELETED Reason:Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.6	Can be operated from mains as well as battery	TO BE DELETED Reason:Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 4.7	Should have defibrillator testing facility	TO BE DELETED Reason:Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	
Para 5	Automatic digital NIBP measurement during stress test should be provided with the system	Automated NIBP monitor with following feature / accessories a. Should have the option of data retrieval, with 300 BP reading history and USB capabilities for measurement	Integrated Automatic digital NIBP measurement during stress test should be provided with the system	For better clarity

		retrieval. b. The unit should be US FDA & European CE approved. Reason:US FDA and European CE certification ensures that the product meets the international quality standards		
Para 7.1	The treadmill and software should be USFDA / European CE (with 4 digit notified body number) / BIS approved	The complete stress test system including Treadmill should be US FDA approved and European CE Certified (with 4 digit notified body number) Reason:All standard and reputed manufacturers of Stress test systems including Treadmills are both US FDA approved and European CE Certified. This ensures that the software is properly validated and the Treadmill supplied is not a low grade and meets international standards for quality and performance	No change	
BOQ	Point No.: BOQ (8) Defibrillator Bi-Phasic QTY: 1 No. - price to be quoted separately	TO BE DELETED Reason: Defibrillators to be procured separately as most of the stress test manufacturers do not manufacture or supply Defibrillators	No change	

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118350 dated 26.04.2022				
Item no 12- Ambulatory BP Monitor				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 3	Display Range : 0 - 300mmHg	Display Range : 0 – 270 mmHg Display Range : 25 - 300mmHg Justification: Please amend this point for wider participation	No change	
Para 4	Measurement Range:Systolic 60 -	Measurement Range: Systolic 60 - 260mmHg (min.	No change	

	280mmHg (min. division: 1mmHg)Diastolic 0 - 160mmHg (min. division: 1mmHg)Pulse 30-200bpm (min. division: 1bpm)	division: 1mmHg) Diastolic 30 - 200mmHg (min. division: 1mmHg) Pulse 30-200bpm (min. division: 1bpm)		
Para 8	Temperature & Humidity Range:Operation :50°F to 104°F (10°C to 40°C), less than 85%RH Storage & Transportation : - 4°F to 131°F (-20°C to 55°C), less than 95%RH	Storage & Transportation : - 10°C to 50°C, less than 95%RH Justification: Please amend this point for wider participation	No change	
Para 9	Weight: <150gm	Weight: <200 gms without battery weight : <200 grams (including rechargeable batteries) Justification: Please amend this point for wider participatio	No change	
Para 10	Data Output : RJ 45 or equivalent ports	Data Output : RJ45 or USB or equivalent ports	No change	
Para 11	Cuffs: Adult Cuffs, Left Arm (7.9" - 12.2" (20-31cm) - 2nos Large Cuffs, Left Arm (11" - 14.2" (28-36cm) - 2 nos Small Cuffs, Left Arm (5.9" - 8.7" (15-22cm) - 1 no Adult Cuffs, Right Arm (7.9" - 12.2" (20-31cm) - 2 nos Large Cuffs, Right Arm (11" - 14.2" (28-36cm) - 2 nos	ABPM should be use for child usage: Cuffs: Child, 13-20 cm, latex free, Small Adult, 17-26 cm, latex free, Adult, 24-32 cm, latex free, Large Adult, 32-42cm, latex free, Remarks: Hypertension is a growing trend and system should not be limited to adult usage	Cuffs: Small Cuffs, (13-22cm) - 2 nos Adult Cuffs, (20-31cm) - 4nos Large Cuffs, (28-36cm) - 4 nos Extra Large Adult, (32-42cm) - 2 nos	For better clarity
		ADDITIONAL POINT: Should meet the following standards- British Hypertension Society (BHS): A/A European Society of Hypertension (ESH): Pass AAMI/ANSI/ISO 81060 (Adults & Children)	No change	
		ADDITIONAL POINT: Should be able to monitor upto a week or at least 300 readings without required change of batteries	No change	
		ADDITIONAL POINT: Each unit should be compatible to measure ambulatory BP across	No change	

		the entire paediatric age group with both adult and child modes should be available		
		ADDITIONAL POINT:Should be able to take more than equal 100 measurements per day	No change	
		ADDITIONAL POINT:System should have adjustable intervals during 24 hour period with each configurable to a set periodicity of duration measurements with minimum 5 to 120 minutes	No change	
		ADDITIONAL POINT:Should be certified by US FDA/ISO/CE or BIS	No change	
	HARDWARE REQUIREMENTS 14. RAM : 8GB Min.	As per prebid discussion	HARDWARE REQUIREMENTS 14. RAM : 16 GB Min.	For better utility
	17.Hard Disk: 1TB	As per prebid discussion	17.Hard Disk: 1TB SSD	For better utility

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118338 dated 26.04.2022				
Item no 13- Point of Care device (Cardiac Biomarker)				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 1	Should be able to measure quantitatively Troponin, CPK-MB, NT-Pro BNP, PT-INR either separately or in combination.	Should be able to measure quantitatively Troponin, CPK-MB, BNP, Myoglobin, D-Dimer, NT-Pro BNP, Toxicology Drug of Abuse, either separately or in combination. Reasoning: PT-INR measures the clotting time and it is often leading to frequent breakdown due to Blood sample accumulation in testing compartment and hence removed and suggest to measure on a separate platform Myoglobin and D-Dimer are also important markers in diagnosing cardio vascular diseases and more sought after tests required in Covid related	Should be able to measure quantitatively Troponin, CPK-MB, Myoglobin, D-Dimer , NT-Pro BNP, PT-INR either separately or in combination.	End user requirement

		cases Kindly remove PT-INR as it is available with one company only on the same platform. We suggest to add D-Dimer and PCT as an essential parameter		
Para 3	Weight : <1.5 Kg	Weight: <1.0 Kg Reasoning: A POC Device with a portable light weight compact is more vitally required for offering portability while testing upon patients from Bed Side Testing Kindly remove weight requirements for better competition	Deleted	For wider participation
Para 4	Data Memory : >150 MB	Data Memory: >150 MB or 750 Tests Reasoning: The latest industry standards for POC devices are ranging from 500-1000 Tests	Data Memory: >150 MB or more than 500 Tests	For wider participation
Para 5	Data Storage : At least 10,1000 tests	To Delete Reasoning: The latest industry standards for POC devices are ranging from 500-1000 Tests and none of the available Devices are having capability to store more than 1000 Tests	Data Storage : more than 500 Tests	For wider participation
Para 6	Display : At least 8" color display	Display: At least 3" color display Reasoning: A POC Device with a compact Display is more vitally required for offering portability. More than 8" display shall fulfill the POC requirement and hamper portability while testing upon patients from Bed Side Testing	Display : At least 3" color display	For wider participation
Para 7	Should have USB port	Should have USB port/COMP Port Reasoning: It should have a common Computer Interface Port for HIS/LIS Connectivity	Should have USB port/ Communication port	For wider participation
Para	Should be supplied with 100	Kindly specify whether 100	Should be supplied	For better clarity

11	cartridges of each test and the rates should be quoted seperately for each cartridge and prices to be freezed for warranty period	tests for each parameter need to be supplied.You have mentioned 100 catridges so it is not clear that how many test should be there in each cartridge. So instead of cartidge kindly quantify in number of tests to be supplied for each parameter.	with cartridges for 100 tests for each parameters either seperately or in combination. The rates should be quoted seperately for each cartridge and prices will be freezed for warranty period	
		Kindly make provision to quote seperately rates for consumables/cartridge in the bid document		

Response To Pre-Bid Queries (Pre-Bid date: 30-04-2022)				
GeM tender ID: GEM/2022/B/2118244 dated 26.04.2022				
Item no 14- Tilted Table				
Tender Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION	JUSTIFICATION
Para 5	tilt tables motor should have 12- 14 mm/sec speed at unloaded and 6 -7 mm/sec speed at full load.	Please let us know how to certain the speed required in specification	No change	Test reports should be submitted
Para 7	It should have facility of lowers to wheelchair height	Please specify the lowest and maximum height	No change	
Para 12	Table should have work table attachment	Please clarify Table should have work table attachment	Deleted	For better clarity

Commercial Query Reply

Commercial Representations			
Discription	Existing	Commercial Representation	HITES Reply
Section IX	1. (a) The Manufacturer should have supplied and installed in last Five years from the date of Tender Opening, at least 20% of the quoted quantity (rounded off to next whole number) of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily.	To be removed or exemption for MII OEM like us with three or less than years of sales & operations	No Change

<p>Section IX</p>	<p>3. Preference to Make In India products (For bids less than 200 Crore): 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 50%. 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 and its subsequent amendment thereof. Only Class-I and Class-II Local suppliers as per MII order dated 16.02.2021 and its subsequent amendment thereof (Annexure-I) will be eligible to bid. Non - Local suppliers as per MII order dated 16.02.2021(Annexure-I) are not eligible to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.</p>	<p>Should allow Class II local suppliers as well to participate in the tender bid.</p>	<p>It is already mentioned at point 3 that Class 1 & Class II local supplier both can participate However purchase preference will be given to class-1 supplier.</p>
<p>Section IX</p>	<p>1. The Purchaser may ask for a sample to be sent for approval within 07 days from the date of issuance of Notification of Award/Contract, before delivery of bulk manufacturing/supplies of goods.</p>	<p>Not applicable to High value products like Cath Labs</p>	<p>No Change</p>
<p>Section IX</p>	<p>Proforma for Performance Certificate: Mandatory Declaration: We hereby certify that the details of all orders received in last 3 years of quoted equipment (including AIIMS, PGIMER,</p>	<p>Exemption to MII OEM from Govt. Supply orders details as Performance Certificate and Institutes</p>	<p>No Change</p>

	JIPMER, RML Hospital, Safdarjung Hospital, Institute of National importance) has been furnished. We hereby further certify that if at any time, information furnished by us is proved to be false or incorrect; we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the Bid Security.	mentioned in the Proforma should be removed as only MNCs has supplied Cath Labs to these govt. institutes in the last 5 years.	
Page no 1 of ATC. Page no 05 of ATC.	Bid Security Declaration: With respect to provisions contained in the Bid document regarding submission of Bid security declaration, interested bidders are required to sign "Bid Security Declaration" as per Section XII.	We humbly request you to please clarify what needs to be submitted.	Bidder should submit EMD amount as mentioned in Bid document.
Page no 14 of ATC.	TERMS AND MODE OF PAYMENT: Seventy percent (75%) payment of the delivered goods price shall be paid on receipt of goods in good condition and upon the submission of the documents. Balance Twenty percent (25%) payment of the delivered goods value would be made against 'Final Acceptance Certificate' (FAC) as per Section XVIII of goods to be issued	Due to big size of tender, we humbly request for opening of 100% irrevocable Inland Letter of credit with disbursement split of 75% initial payment against LC to be paid on submission of dispatch documents and balance 25% payment would be made against installation.	No Change
Page no 22 of ATC.	Delivery period: 90 days from date of Notification of Award to delivery at consignee site or within 45 days from the date of site readiness, whichever is later. The date of delivery will be the date of delivery at consignee site. Tenderers may quote earliest delivery period. Installation and commissioning shall be done within 45 days of receipt of the stores/ goods at site or within 45 days of handing over the site for installation, whichever is later.	Looking at the current supply chain scenario impacted due to Covid 19 we humbly request you to kindly amend this to 180 days from the date of opening of LC or date of approval of layout drawing from AERB, or date of site handing over by institute along with commitment of permanent power, whichever is later. Installation and commissioning shall be done within 90 days of receipt of the stores/ goods at site or within 90	No Change

		days of handing over the site for installation, whichever is later.	
Page no 04 of Bid document.	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.	We humbly request you to please change it to 95% uptime warranty during CMC period on 72 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.	No Change
Page no 12, point no 15.6 of ATC.	Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser/buyer for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per conditions laid down in the Bidding Document	You would agree, that considering the Custom holidays & Govt. holidays it's not practical to have 24(hrs) X 7 (days) X 365 (days) as Service Criteria . Hence, we request you to kindly amend it as "Working days of the respective institute".	No Change
Page No 14 & point no A(ii) of ATC.	Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;	We humbly request for issuance of Consignee Receipt Certificate on delivery and mention the timelines for issuance of Consignee Receipt Certificate post-delivery.	No Change
Page no 23 of ATC	Consignee Sites	We request you to please mention the consignee sites for Cathlab to represent turnkey points.	AIIMS and GMC getting establish under PMSSY
	Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non – Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. (Minimum 50% and 26% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively) MII Purchase Preference: Yes	TO BE DELETED	No Change
	As per the Additional Terms & Conditions- Buyer Specific Clauses (Section1 Clause 1)	Clarification: Please note: Siemens	Bidder should submit EMD

	<p>and GeM Bidding Document Pg. No.1, it is mentioned EMD of amount Rs. 91,00,000/- Although, as per the Pg. No.5 Clause 12 of the ATC document, Bid Security Declaration is asked to be submitted but the format of the same (section XII) is missing. GeM Bidding document & ATC document also allows that bidder can submit EMD exemption document (If applicable)</p>	<p>Healthcare Pvt Ltd. is exempted to submit the EMD as per the GeM GTC Terms.</p> <p>Please clarify on EMD clause where bidder is exempted to pay the EMD as per GeM GTC Terms.</p>	<p>amount as mentioned in Bid document. Exemption of EMD is only for MSE, startup as per Gol Guideline</p>
<p>Part II: Required Delivery Schedule: As per Additional Terms and Conditions – Buyer Specific Clauses Pg:22</p>	<p>Delivery period For Indigenous goods or for imported goods if supplied from India: 90 days from date of Notification of Award to delivery at consignee site or within 45 days from the date of site readiness, whichever is later. The date of delivery will be the date of delivery at consignee site. Tenderers may quote earliest delivery period. Installation and commissioning shall be done within 45 days of receipt of the stores/ goods at site or within 45 days of handing over the site for installation, whichever is later. Delivery 90 days from Supply order.</p>	<p>Delivery Period: The delivery period will be 150 days from the date of placement of supply order or opening of confirmed & irrevocable Letter of Credit or 45 days from the date of site readiness with permanent power/water by respective consignee or Site Layout approval from AERB for respective consignee, whichever is later Installation and commissioning shall be done within 45 days of receipt of the stores/ goods at site or within 45 days of handing over the site for installation with permanent power/water by respective consignee or Site Layout approval from AERB for respective consignee, whichever is later. Note: Consignee wise LC shall be opened based on site readiness status from respective consignee Please amend as proposed above</p>	<p>No Change</p>
<p>Payment Terms As per Additional</p>	<p>Payment for Indigenous Goods (M&E). Payment shall be made in Indian Rupees as specified in the contract in the following</p>	<p>Payment for Indigenous Goods (M&E) & for imported goods supply</p>	<p>No Change</p>

<p>Terms and Conditions – Buyer Specific Clauses_GCC Clause 21.1.A.</p>	<p>manner: a) On Delivery: Seventy percent (75%) payment of the delivered goods price shall be paid on receipt of goods in good condition and upon the submission of the following documents: (i) Four copies of supplier’s invoice showing contract number, goods description, quantity, unit price and total amount;(Invoice must be raised in favour of Consignee with their GSTN) (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee; (iii) Two copies of packing list identifying contents of each package; Payment for Indigenous Goods (iv) Inspection certificate issued by the nominated Inspection agency, if any. (v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours; (vi) Certificate of origin. (vii) Manufacturer’s warranty certificate. b) On Acceptance: balance 25% against FAC issued by consignee.</p>	<p>from India. a) On Shipment: 100% through confirmed & irrevocable Inland letter of credit, payable as:- Consignee wise LC shall be opened based on site readiness status from respective consignee. Seventy Five percent (75%) payment of the contract price shall be paid against shipment documents and upon the submission of the following documents subject to recovery of LD, if any: i) ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee to be modify as Copy of lorry receipt iii)..... iv)Inspection certificate issued by the nominated Inspection agency Independent third party agency such as SGS, Llyod etc, (v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours (vi) Certificate of origin. (To amended as Country of origin for imported main equipment only</p>	
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		shall be provided) (vii) Manufacturer's Supplier's warranty certificate. b) On Acceptance: balance 25% against FAC issued by respective consignee	
CAMC Payment terms:- As per Additional Terms and Conditions – Buyer Specific Clauses Point: 21.	Payment for Comprehensive Annual Maintenance Contract Charges: The consignee will enter into CAMC with the supplier at the rates as stipulated in the contract. The payment of CAMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the End User on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment valid till 3 months after expiry of entire CAMC period.	Payment for Comprehensive Annual Maintenance Contract Charges: The consignee will enter into CAMC with the supplier at the rates as stipulated in the contract. The payment of CAMC will be made on six monthly advance basis at the beginning of said period on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment valid till 3 months after expiry of entire CAMC period.	No Change
Performance Security amendment submission period: As per Additional Terms and Conditions – Buyer Specific Clauses	In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended	In the event of any amendment issued to the contract, the supplier shall, within thirty (30) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.	No Change
Uptime: Additional Clause For Comprehensive Maintenance Charges. Gem Tender:Page-04	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	There will be 95% 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	No Change

<p>Distribution of Dispatch Documents for Clearance / Receipt of Goods As per Additional Terms and Conditions – Buyer Specific Clauses</p>	<p>Within 24 hours of dispatch, the supplier shall notify the concerned Store Officer in AIIMS Clearing Agent and others concerned the complete details of dispatch and also supply following documents by air mail/ courier etc. with intimation by e-mail: a) Commercial Supplier’s Invoice giving full details of the goods including quantity, value, etc. b) Packing list; c) Insurance Certificate; (if applicable) d) Manufacturer’s guarantee and Inspection certificate; (if applicable) e) Inspection certificate issued by the Purchaser’s Inspector; (if applicable) f) Any other document(s) as and if required in terms of the contract.</p>	<p>Within 72 hours of dispatch, the supplier shall notify the concerned Store Officer in AIIMS Clearing Agent and others concerned the complete details of dispatch and also supply following documents by air mail/ courier etc. with intimation by e-mail: a) Commercial Supplier’s Invoice giving full details of the goods including quantity, value, etc. b) Packing list; c) Insurance Certificate; (if applicable) d) Manufacturer’s or Supplier’s guarantee and Inspection certificate; (if applicable) e) Inspection certificate issued by the Purchaser’s Inspector; (if applicable) f) Any other document(s) as and if required in terms of the contract.</p>	<p>No Change</p>
<p>Most favored clause: As per Additional Terms and Conditions – Buyer Specific Clauses</p>	<p>The Supplier along with its Manufacturer Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers/buyer of its equipment/ machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser/Consignee</p>	<p>The Supplier along with its Manufacturer Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers/buyer of its equipment/ machines/goods of identical descriptions (i.e. identical nature, class, specifications prevailing exchange rate, warranty, quantity and other commercial terms & conditions) etc. and shall always give the most</p>	<p>No Change</p>

		competitive price for its machines/equipment supplied to the Purchaser/Consignee until installation of the equipment but not later than 12 months from the date of submission of this bid.	
GST: As per Gem tender terms. (Pg. 04). As per Additional Terms and Conditions – Buyer Specific Clauses	GST shall be included in the CMC Charges quoted. 20.1 Supplier shall be entirely responsible for GST incurred until delivery of the contracted goods to the purchaser/buyer. GST reimbursement will be as per actual or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.	GST shall be included excluded in the CMC Charges quoted applying present prevailing rates. 20.1 Supplier shall be entirely responsible for GST incurred until delivery of the contracted goods to the purchaser/buyer subject to change in any taxes, duty due to statutory reasons & change in foreign currency exchange rate due to Market volatility. GST reimbursement will be as per actual	No Change
		Kindly amend MII and MSE clause as No	No Change

Note:

- I. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**