

(A Government of Kerala Undertaking) Thycaud P.O, Thiruvananthapuram - 14, Kerala. Tel: 0471 - 2945600, 2337353, Fax: 0471 - 2945647 Email :ep.kmscl@kerala.gov.in CIN: U24233KL200TSGC021616, PAN : AADCK4029M, GSTIN : 32AADCK4029M1ZK

Running Contract Details			
Equipment Name	Live 4D Echo Cardiography System		
Running Contract Valid Till	20-05-2027		
Tender Ref No	KMSCL/EP/T544/304/2024		
Tendered Quantity	10		
Supplier Name	M/s Wipro GE Healthcare Pvt Ltd		
GST No	29AAACW1685J1ZW		
Installation & Delivery Period	8 Week(s)		
Up-time / PM vist	95% & 4 Visits per year		
Warranty period	3 Years		

Supplier`s Details						
Address	Contact Details					
Incuspaze Solutions	Contact Person	Mr. John Tenny				
34/195 Oberon Mall	Phone	080-28452923				
NH Bypass Padivattom	Mobile No	9895895006				
Edapally Kochi 24	Email	tenny.john@ge.com				

Item-wise Price Details							
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total			
1	Live 4D Echo Cardiography System Model & Make : Vivid E95/GE Healthcare / Wipro GE	6345000 Incl.GST :12%	467943.75	6812943.75			
2	Single crystal Active Matrix Phased Array Probe with Band Width 1.5-4 MHZ.	172500 Incl.GST :12%	12721.88	185221.88			
3	Peadiatric Transthoracic Probe- Phased Array Band Width 2.7-8 MHZ.	172500 Incl.GST :12%	12721.88	185221.88			
4	Curved Array Probe Band Width 1.6-5.0 MHZ	102350 Incl.GST :12%	7548.31	109898.31			
5	Active matrix 4D Volume Phased Array Probe Band Width 1.5-4 MHZ.	460000 Incl.GST :12%	33925	493925			
6	Additional work station	180000 Incl.GST :12%	13275	193275			

Item-wise Price Details									
7	7 Regular TEE Probe 2D Multiplane with Colour Doppler Adult 3.0 to 7.0 MHz			h Colour	60000 Incl.GST : 12	2%	44250	644250	
8	Trans Esophageal Active Matrix Phased Array Live 3D and 2D Probe 3.0 - 7.0 MHZ.			d Array	800000 Incl.GST :12%		59000		859000
				883235	50 6	51385.81	9483735.81		
Annual / Comprehensive Maintenance Charges (Exl.Tax)									
Rate	•	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	7 <sup>th</sup> Year	8 <sup>th</sup> Year	r 9 <sup>th</sup> Year		10 <sup>th</sup> Year
Live 4D Echo Cardiography System									
Labou	r	1,00,000.00	1,10,000.00	1,20,000.00	1,30,000.00	1,40,000.00	1,50,00	00.00	1,60,000.00
Compr ve	rehensi	8,50,000.00	8,50,000.00	8,75,000.00	8,75,000.00	9,00,000.00	9,00,00	00.00	9,50,000.00

## **Other terms & conditions**

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).

2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.

3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.

4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).

5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

# **Technical Specification**

## Equipment :Live 4D Echo Cardiography System

**Technical Specification** 

#### Equipment: Live 3D (4D) Echocardiography System

- 1. Should quote only the latest and most technologically advanced system
- 2. Should be capable of single beat data acquisition with accelerated full volume architecture platform
- 3. Dedicated 4D platform, preferably software based
- 4. Should be supplied with software for Pre & post analysis.
- 5. Future upgradability through software
- 6. Should have post processing capabilities for gain, B mode, sweep speed etc
- 7. Should have multiple lines acquisition with rapid frame rates more than 2800 frames/second. These frame rates should be

applicable for B Mode, color flow, and color tissue Doppler

- 8. Coded/pulse harmonic imaging should be possible
- 9. Digital beam former technology with high definition imaging
- 10. There should be a broad angle atleast 90 degrees.
- 11. Should have ergonomic design with one or 2 touch control panel
- 12. Atleast 22 inch flat panel type OLED monitor with tilt, swivel & float options
- 13. The system should be capable of the following imaging and operating modes
- a. Real time anatomical mMode and curved m Mode.
- b. Dual focal zones should be available
- c. White zoom-on line & offline
- d. Read zoom online and offline
- e. Advanced stress echo package with automatic report generator with flexible protocols for physical and pharmacologic stress with 2 minute continuous capture
- f. Live 3D imaging (4D) single beat full volume data acquisition with high frame rates with storage of volumetric data. Automatic tissue optimization should be possible
- g. Should be capable of Quantization of tissue Doppler.
- h. Latest Software for speckle tracking for LV,RV and LA
- i. Strain and strain rate imaging should be available
- j. Sector, linear and multiplane and live 3D (4D) transcoephageal imaging should be available
- k. 2D, MMode, color MMode
- l. Color flow Doppler imaging
- m. Fully steerable pulsed Doppler
- n. Fully steerable continuous wave Doppler
- o. Tissue Doppler with high frame rates & 2D strain imaging
- p. Digital cine replay of all imaging and Doppler with measurements and calculations
- q. Full measurement and analysis capability
- r. Digital image storage and patient archive with true scanner frame rates
- 1. The system shall have contrast specific imaging capability with LV specification and myocardial perfusion echo. It shall support a contrast specific user interface with commonly used controls
- 2. The system should be able to
- a. Trace, calculate and display the perimeter of a displayed structure, with incremental erasing of perimeter trace
- b. Trace, calculate, and display area of a displayed structure
- c. 3D qualification and 3D viewing, cardiac 3D advanced quantification, cardiac 2D quantification, region of interest calculation, automated intima media thickness and strain quantification
- d. Cardiac biplane volume measurements based on simpsons biplane method in 2D and 2D fractional area change

#### 1. Live 3D (4D)

- a. Easy selection of volumetric data with automated cropping
- b. Multioptional volume acquisition
- c. Automated Dynamic LVEF, RV and LA calculation
- d. 4D stress/i-rotate to be available
- e. Ministurised beam former with small footprint
- f. Simultaneous display of volume and multiplanar views
- g. The system shall provide live 3D color flow rendering with ability to crop, rotate, suppress color, suppress B&W image, suppress the baseline and change gains h.
- h. The system should support full screen display of all 3D views including X,Y & Z MPR views and simultaneous display of thumbnail views on the same system display monitor
- i. Volume rotation in all planes must be supported
- j. The 3D/4D imaging with preferably single probe capability probe should support all modes like 2D, M Mode, CW, PW, CFM. PW, CW and TVI
- k. Triplane imaging should be possible(Online/offline)
- 1. Multidimensional stress echo should be possible
- m. Multislice imaging 12 slice should be possible

1. Should have 4D viewing technology like True vue/ flexi light software

## II ESSENTIAL ACCESSORIES

- 1. Single Crystal Active Matrix Phased Array Probe With smallest foot print and Bandwith 1.5 4 Mhz With Field Of View at least 90 Degree.
- 2. Pediatric transthoracic probe phased array band width 3 8.0 MHz
- 3. Curved array probe band width 1.6 5.0 MHz
- 4. Active matrix 4D volume phased array probe band width 1.5-4.0MHz field view 90 degree and depth of field 30cm (Live 3D transthoracic adult transducer)
- 5. Adult Trans esophageal active matrix phased array live 3D and 2D probe 3.0-7.0 MHz field of view 90 degree depth of field 20cm.
- 6. Adult Trans esophageal active matrix phased array 2D probe 3.0-7.0 MHz field of view 90 degree depth of field 20cm. The rate to be quoted in the appropriate column provided in the BOQ. If the rate is not offered in BOQ the offer will be rejected and not considered for price bid evaluation.
- 7. Should supply external original licensed workstation of specification Pentium i7, 3TB HDD, 23 inch monitor, 8GB RAM, Licensed operating system, NVIDIA graphics card supporting 3D images. The workstation should have licensed off-cart quantification tools like RVLVO, MV assessment in detailed manner. The license of all software of the machine and workstation shall be valid till the life period of the total system. Should be provided with suitable UPS and Computer table for workstation.

## III IMAGE MANAGEMENT

- 1. System should be able to store patient images, loops in the hard disk drive of 500 GB or more
- 2. System should have inbuilt CD/DVD writer and USB port
- 3. Should have supplied with A4 Colour laser printer.

## IV TECHNICAL SUPPORT

- 1. Operating manual
- 2. Power supply 230+-15%, 50Hz.
- 3. Should provide suitable online pure sine branded UPS with one hour back up.