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

| Running Contract Details | |
|---|---|
| Equipment Name | 3D/4D Echocardiography Model B |
| Running Contract Valid Till | 03-09-2020 |
| Tender Ref No | KMSCL/EP/T261/304B/2017 |
| Tendered Quantity | 10 |
| Supplier Name | M/s Philips India Limited |
| GST No | 33AABCP9487A1ZG |
| Model & Make | Philips EPIQ7C Echocardiography System / M/s. Philips Medical Systems Nederlands, B.V. |
| Unit rate (Rs) | 33,18,248.00 |
| CGST 0.00% | 0.00 |
| SGST 0.00% | 0.00 |
| IGST 0.00% | 0.00 |
| Total Cost(Exl.KMSCL S.C) Rs. | 33,18,248.00 |
| Flood Cess (1%) Rs. | 0.00 |
| Service Charges 7% + GST 18% | 2,74,087.28 (Applicable for purchase through KMSCL only) |
| Total Cost(Incl. KMSCL S.C) Rs. | 35,92,335.28 |
| 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** | |
| C/o Expeditors International India Pvt. Ltd.<br>Survey No. 523/ 3E2 - 3F - 3G - 3M - 4A - 4B - 524/1B - 2BM - 3A2<br>Door No.116<br>Devaneri Village Road - Sholavaram Village<br>Chennai - 600067 | Contact Person | Mr. K Ramesh, Mr.Nagaraj Kamt |
| | Phone | |
| | Mobile No | 9845100119(Ramesh), 9619663999(Nagaraj) |
| | Email | k.ramesh@philips.com |

**Item-wise Price Details**

| # | Item Details | Unit Rate (Incl.all taxes & charges) | Service Charges (Through KMSCL) | Grand Total |
|---|---|---|---|---|
| 1 | **3D/4D Echocardiography Model B** | 3318248 | 274087.28 | 3592335.28 |
| 2 | **Single Crystal Active Matrix Phased Array Probe with Band with 1.5 â€“ 4 MHz with Field of View at least 90 Degree.** | 271729 | 22444.82 | 294173.82 |

| Item-wise Price Details | | | | |
|---|---|---|---|---|
| 3 | **Curved array probe band width 1.6 â€“ 5 MHz** | 407767 | 33681.55 | 441448.55 |
| 4 | **Active matrix 4D volume phased array probe band width 1.5 â€“ 4.0 MHz field view 90 degree and depth of field 30cm (Live 3D transthoracic adult transducer)** | 706217 | 58333.52 | 764550.52 |
| 5 | **Pediatric transthoracic probe â€“ phased array band width 3 â€“ 8.0 MHz** | 261776 | 21622.7 | 283398.7 |
| 6 | **Adult Trans esophageal active matrix phased array live 3D probe 3.0 â€“ 7.0 MHz field of view 90 degree depth of field 20cm** | 1136995 | 93915.79 | 1230910.79 |
| 7 | **Paediatric Trans esophageal active matrix phased array live 3D probe 3.0 â€“ 7.0 MHz field of view 90 degree depth of field 20cm** | 2364738 | 195327.36 | 2560065.36 |
| 8 | **External workstation** | 215385 | 17790.8 | 233175.8 |
| | | **8682855** | **717203.82** | **9400058.82** |

| Annual / Comprehensive Maintenance Charges (Exl.Tax) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Rate** | **4th Year** | **5th Year** | **6th Year** | **7th Year** | **8th Year** | **9th Year** | **10th Year** |
| **3D/4D Echocardiography Model B** | | | | | | | |
| **Labour** | 88,500.00 | 92,925.00 | 97,571.84 | 1,02,449.96 | 1,07,572.34 | 1,12,950.78 | 1,18,598.26 |
| **Comprehensive** | 9,15,680.00 | 9,15,680.00 | 9,61,464.00 | 10,09,537.20 | 10,60,014.06 | 11,13,014.94 | 11,68,664.92 |

## 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% 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 :3D/4D Echocardiography Model B**

1. Should quote only 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 software based

4. Should be supplied with software for pre & post analysis

5. Future upgradability through software during the warranty and CMC period

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 1000 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 90degrees or more

11. Should have ergonomic design with single touch control panel

12. At least 21 inch flat panel type monitor with tilt, swivel & float options

13. The system should be capable of the following imaging and operating modes

a) Real time anatomical M-Mode 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) 2D Speckle tracking should be available

i) Strain and strain rate imaging should be available

j) Sector, linear and multiplane and live 3D (4D) transoesophageal andtransthoracic imaging should be available

k) 2D M-Mode, color M-Mode

l) Color flow Doppler imaging

m) Fully steerable pulsed Doppler

n) Fully steerable continuous wave Doppler

o) Tissue Doppler with high frame rates and automated 2D strain imaging

p) Digital cine replay of all imaging and Doppler with measurement and calculations

q) Full measurement and analysis capability

r) Digital imaged storage and patient archive with true scanner frame rates

14. 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

15. The system should be able to

i. Trace, calculate and display the perimeter of a displayed structure, with incremental erasing of perimeter trace

ii. Trace, calculate, and display area of a displayed structure

iii. 3D qualification and 3D viewing, cardiac 3D advanced quantification, cardiac 2D quantification, region of interest calculation, automated intima media thickness and strain quantification

iv. Cardiac biplane volume measurement based on Simpsons biplane method in 2D and @d fractional area change

16. Live 3D (4D)

1. Easy selection of volumetric data with automated cropping

2. Multi optional volume acquisition

3. Automated LV quantification

4. 4D stress/ equivalent technology to be available

5. Mini-aturised beam former with small footprint

6. Simultaneous display of volume and multi planar views

7. The system should provide live 3D color flow rendering with ability to

crop, rotate, suppress color, suppress B & W image, suppress the baseline

and change gains.

8. 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

9. Volume rotation in all planes must be supported

10. The 3D/4D imaging with preferably single probe capability probe should support all modes like 2D, M Mode

11. CW, PW, CFM, PW, CW and TVI

12. Triplane/ equivalent imaging should be possible (Online/Offline)

13. Multidimensional stress echo should be possible

14. Multi slice imaging should be possible

17. ESSENTIAL ACCESSORIES

1. Single Crystal Active Matrix Phased Array Probe with smallest foot print and Band with 1.5 – 4 MHz with Field of View at least 90 Degree or more.

2. Pediatric transthoracic probe – phased array band width 3 – 8.0 MHz

3. Curved array probe band width 1.6 – 5 MHz

4. Active matrix 4D volume phased array probe band width 1.5 – 4.0 MHz 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. Paediatric Trans esophageal active matrix phased array live 2D probe 3.0 – 7.0 MHz field of view 90 degree depth of field 20cm.

7. Should supply external original licensed workstation of specification Pentium i7, 3TB HDD, 23 inch monitor, 16GB RAM, Licensed operating system, NVIDIA
graphics card supporting 3D imaging. The workstation should have licensed off-cart quantification tools like RV and LV volume assessment, 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 and chair for work station.

18. IMAGE MANAGEMENT

1. System should be able to store patient images, loops in the hard disk drive of 1TB or more

2. System should have inbuilt CD/DVD writer and USB port

3. Should have supplied with A4 high resolution color laser printer.

19. 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.