

**AMENDMENT NO.1 Dated 30.07.2018**

**Ref No: HLL/SD/RBD/2018-19/04 Dt: 10.07.2018**

**Tender Title: E-TENDER FOR THE SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND ONSITE SUPPORT FOR MEDICAL EQUIPMENTS TO SWAZILAND**

1. Closing date & time for submission of EMD in physical form

**FOR**

Last date for submission of EMD in physical form: 31.07.2018, 15.00 hrs

**MAY BE READ AS**

Last date for submission of EMD in physical form: 07.08.2018, 15.30 hrs

2. Last date and time for online submission of bids

**FOR**

Last date for date and time for online submission of bids: 01.08.2018, 15.00 hrs

**MAY BE READ AS**

Last date for date and time for online submission of bids: 08.08.2018, 15.00 hrs

3. Date of Online Bid opening

**FOR**

Time and date of opening of online bids: 01.08.2018, 16.00 hrs

**MAY BE READ AS**

Time and date of opening of online bids: 08.08.2018, 16.00 hrs

**4. The Section V- Technical Specification (page number 21-26) of the initial tender document is amended and shall be read as given below. The Section V- Technical Specification (page number 21-26) in the initial tender document stands deleted.**

**1. Medicine Refrigerator:**

1. Capacity- 450Ltrs
2. Able to retain the cooling of 2-8°C for minimum 5 Hrs during power cuts (when not opened).
3. Temperature range: +2°C to +6°C with setting accuracy  $\pm 1^\circ$  C irrespective of the load

4. Cabinet made of durable material and interior should be made of non- rusting stainless steel
5. Extendable drawers made of corrosion free stainless steel material with dividers should be present
6. Frost free and positive forced air circulation should be present for temperature uniformity.
7. Double panel glass door with standard lock should be present
8. Number of trays 5
9. Condenser should be aided with continuous rated motor fan.
10. Auto defrost and condensate removal option should be present.
11. Microprocessor based temperature chart recorder, which provides permanent record of storage conditions should be present.
12. Digital temperature controller should be present
13. Audible alarm option for temperature deviation, power failure and door open condition should be present
14. Voltage stabilizer of suitable capacity to be provided
15. Automatic rechargeable battery backup for display, recorder and alarm should be present in case of power failure.
16. Input: 220/240V, 50Hz
17. Equipment shall meet electrical safety specification such as that of IEC standards.
18. Should be CFC free, noise free, energy saving and eco-friendly refrigerant

## **2. Doppler Machine**

### **1. Description of function**

- 1.1 Color Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.

### **2. Operational requirements**

- 2.1 Latest generation Electronic Phased array Color Doppler system with Minimum 512 Electronic independent channels. System should be DICOM ready and capable of being interfaced with PACS.
- 2.2 Should be field up gradable to next generation system on site.
- 2.3 Frequency compounding or better technology for better resolution and penetration.

### **3. Technical Specifications**

- 3.1 High Definition 20”(Minimum) LCD screen, high resolution Tilt and Swivel monitor should be able to view in all angles and all light conditions. with arm to rotate left to right and up down
- 3.2 4 probe Connectors with dynamic inter probe switching without rebooting the machine.
- 3.3 5 probes - Linear Probe, Convex Probe, Micro-Convex probe, Phase array probe with cardiac CW package and 4D volume probe with necessary software packages need to be provided as standard configuration.
- 3.4 Latest generation Electronic Phased array Color Doppler system with Minimum 512 Electronic independent channels.
- 3.5 256 gray shades for sharp contrast resolutions
- 3.6 Multi-dimensional Beam former for generating two images simultaneously one at low end of bandwidth and one at high end then selectively retrieves and mixes the components together for finely textured 2-D or B mode image with superior contrast resolution.
- 3.7 Adult Cardiac and Vascular Probes supplied should be latest generation wide band transducers with frequency selection for higher sensitivity of response over a broader frequency range of operation. All probes to be phased array. OPTIONAL Probes must be available for pediatric application and Trans esophageal Echo for future requirement.

- 3.8 Harmonic Imaging-** System should have following modes in harmonic with separate setting for:
- i. Tissue Harmonic.
  - ii. Contrast Harmonic - both triggered and real time
  - iii. Harmonic Angio
  - iv. Quantification of harmonics imaging
  - v. Harmonic imaging capability in Adult Cardiac, Pediatric Cardiac and linear probe
- 3.9** Gain control in two dimensions for additional level of flexibility to image quality control.
- 4.** Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes
- 4.1** Frame rate should be 300 FPS or more
- 4.2** Steerable PW/CW in all Phased Array probes.
- 4.3** High definition acoustic zoom for enlarging sections of 2D and Colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.
- 4.4** Modes - 2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow with capability of automatically picking up colour flow as a function of focal depth
- 4.5** Colour Flow Imaging for
- a) Increased lateral & spatial resolution.
  - b) Detection of even subtle areas of turbulence, displaying a more physiological blood flow appearance without loss of frame rate.
  - c) Colour flow with capability of automatically picking up colour flow as a function of focal depth
- 4.6** Tissue Colorization (B-Colour) for improved contrast resolution
- 4.7** Application software for Adult, Pediatric, Fetal and Peripheral Vascular and Trans esophageal applications. (All application package should be built into the system)
- 4.8** Cine loop memory- more than 120MB of memory. High Frame rate review for better clarity of playback images study in slow motion. Quad loop with memory for pre and post image comparison of any procedure. Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory-40seconds or more. Frame grabber facility for post analysis.
- 4.9** Various maps for pre and post processing.
- 5.** ECG trigger facility.
- 5.1** User defined system and application presets for multi-user department.
- 5.2** Minimum 4.8 GB optical disc drive for image storage and retrieval. (standard with system)
- 5.3** Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol.
- 5.4** Tissue movement colorization with quantification possibility for IHD/CAD patients.
- 5.5** Three transducer ports will be preferred.
- 5.6** Color Map resolution up to 128 levels.
- 5.7** Study Manager (> 1.5 GB) for on-cart digital acquisition, review and editing of complete patient studies.
- 5.8** Should have a minimum hard disk storage capacity 500GB or more exclusively for images.
- 5.9** Facility of Real time perfusion studies
- 6.** SYSTEM PERIPHERALS should include
- a) CD Writer with calculation facility on playback.
  - b) Color printer.
  - c) B/W Thermal Printer.

## 6.1 Color M-Mode

### 7. System Configuration Accessories, spares and consumables

1. Color Doppler System with all application packages Quad loop for serial studies with High frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Anglo)
2. **1.0-3.0** MHz Adult Cardiac probe Electronics Phased Array probe.-01 each
3. **3.0-11.0** MHz Electronics Phased Array Probe for Vascular applications- 01each
4. Multi-plane TEE Probe- (Optional) 4-8 MHz for Adult as well as Pediatric echocardiography.
5. 5.0-10 MHz Electronic phased array probe for Pediatric cardiology.(OPTIONAL)
6. DVD/CD Recorder with 100 DVDs
7. Color Printer. -01
8. B/W Video Thermal Printers -01
9. Colour Print Paper- 1000 sheets
10. B/W Thermal Paper - 50 rolls
11. ECG Cable - 02
12. External Hard disk of 2TB or more storage capacity for data archiving
13. 5 USB ports (1 at the control panel, 4 at the rear panel) , Ethernet port, S-video out port, VGA port, ECG Port, Printer socket(Hold small printers), should be available.

### 8. Environmental factors

- 8.1 The unit shall be capable of operating continuously in ambient temperature of 30C and relative humidity of 90%
- 8.2 The machine must be suitable for African climate.

### 9. Power supply

- 9.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
- 9.2 Resettable overcurrent breaker shall be fitted for protection
- 9.3 Suitable Servo controlled Stabilizer/CVT
- 9.4 UPS of suitable rating conforming to IS-302 shall be supplied. Servo stabilizer is not required if the UPS has voltage correction facility.

### 10. Standards and safety

- 10.1 Should be CE approved product
- 10.2 Electrical safety conforms to standards for electrical safety IEC-60601 /IS-13450
- 10.3 The product shall comply to IEC 60601-2-37 ed1: Medical Electrical Equipment – Part 2-37: Particular Requirements for the Safety of Ultrasonic Medical Diagnostic and Monitoring Equipment
- 10.4 Type of protection against electric shocks -- Class I Degree of protection against electric shocks for ultrasound probes Type "BF" For ECG electrodes Type 'CF"
- 10.5 The manufacturer should have ISO certification for quality standards.

### 11. Documentation

- 11.1 User manual in English
- 11.2 Service manual in English
- 11.3 List of important spare parts and accessories with their part number and costing.
- 11.4 Certificate of calibration and inspection from factory.
- 11.5 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out
- 11.6 List of equipments available for calibration and preventive maintenance as laid down in the Technical/Service Manual.

### **3. Foetal Monitor**

1. Should be portable
2. Should have the measurement of FHR, and Uterine activity.
3. Should be supplied with event marker cable and an event marker key on the control panel.
4. Should have alert indication for probe contact, high/low FHR
5. Should have a volume control for FHR
6. Should have LCD/TFT display for FHR, Uterine activity
7. Should be provided with thermal printer for printing FHR, uterine activity pressure.
8. Thermal paper should be available locally
9. Should provide alarm limit settings for high, low FHR
10. Should have a display of Date, Time (Real time clock)
11. Should provide belt for both ultrasound and toco transducer
12. Should supply 4 toco transducers along with the machine
12. Should be supplied with SS trolley
13. Should operate on mains (230v, 50Hz)
14. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

#### Accessories

1. Gel – 10 bottle
2. Thermal paper rolls- 50Nos
3. Voltage Stabilizer

### **4. Air Blenders**

1. High quality corrosion resistant stainless steel
2. Able to supply FiO<sub>2</sub> : 21 to 100% with accuracy of +/- 3%
3. Flow rate 3-15lpm
4. Compatible with standard fitting
5. Supplied with two outlets with flow meters
6. CE/FDA approved product.
7. Should be wall mountable
8. Bidder should provide calibration equipment and training for calibration.

### **5. PIMA Machine**

1. Dimensions: Not more than 30cm x 30cm x 30cm
2. Weight: Not more than 5 kg
3. Sample Volume: Max. 50 uL
4. Tests: CD3 & CD4
5. Detection system: LED illumination and CCD-based detection
6. Controls: sample volume control; reagent control; automatic control of cartridge expiry date; internal process controls; automatic test identification
7. Display: graphical display, monochrome
8. User interface: 16 button keypad
9. Memory: data storage capacity of approx. 1000 tests
10. Operating conditions: operating temperature 10–40°C, altitude 0-2000 m, relative humidity 10-95% (no condensation), transport/storage temperature 2–40°C
11. Power supply: DC 12-24 V, mains power 100–240 V + 10% (A/C) at 47–63 Hz
12. The machine shall be USFDA approved

13. The machine shall be supplied with cartridges for 2000 tests, carry bags.

## 6. Delivery Bed:

- Delivery bed should be supplied with all accessories
- Overall size 2100 – 2400 mm L when extended , 900mm– 1100 mm W (with and without side rails up), 440 mm to 900 mm H (without mattress).
- Bed should have three section high pressure laminated top. It should have detachable laminated top for middle section and leg section for ease of cleaning. Leg section should be telescoped under backrest for lithotomy position.
- It should have control devise for making height and back adjustments.[ Manual as well as remote control].
- Frame should be made of mild steel which should be pre treated and powder coated.
- Bed shall have swing down type side railings; railings shall be made from non-rusting polymer moulded material.
- It should have three sectional mattress and seat section should have large perineal cut.
- Mattress should be made of high resilience high quality P.U foam with stain resistant cover and zip.
- Should have a pair of bearing down patient hand grips with PVC covers and with location adjustability for patient convenience.
- All positions should be operated by electromechanical adjustment through a hand set; battery backup with inbuilt battery charger should be provided. The hand set should have indications for power on and the battery charge.
- It should have polymer moulded easily detachable head and foot side panels. It should have four corner rubber buffers.
- Bed should be mounted on 12 cm – 15 cm non rusting castor wheels with locking mechanism. Castor should be made from high grade non floor staining synthetic material. Wheel center should have precision ball bearing to run smoothly.
- Should have infusion rods which have adjustable heights, quick release and attaches to all corners of bed.
- Should have a pair of upholstery aluminium crutches mounted on SS tubes.
- Should have sliding waste collection bowl at perineal part of table.
- It should be able to give trendelenburg, reverse trendelburg and 60 - 70 degree sitting position both mechanically and electronically.
- It should have adjustable foot supports for nursing staff.
- All consumables required for installation and standardization of system to be given free of cost. Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. Or should comply with 89/366/EEC; EMC-directive.
- The unit shall be capable of operating continuously in ambient temperature of 10-40 deg C and relative humidity of 15-90%.
- The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%.
- Power input to be 220-240VAC, 50Hz fitted with Indian plug.
- UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.
- Should be FDA, CE, UL or BIS approved product
- Manufacturer should have ISO certification for quality standards.
- Comprehensive training for lab staff and support services till familiarity with the system.

- Comprehensive warranty for 2 years and 5 years CMC after warranty including UPS.
- Electrical safety conforms to standards for Electrical Safety IEC 60601-2-38 Particular safety requirements for Electrically operated hospital beds.
- User/Technical/Maintenance manuals to be supplied in English.
- List of Equipments available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service/technical manual.
- Certificate of calibration and inspection.
- Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.
- List of important spare parts and accessories with their part number and costing.
- Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

**5. Section III - Instructions to Bidders (ITB) - Clause no. 17 (page no.15-16) may be read as follows;**

## **17. AWARD OF CONTRACT**

### **Evaluation of Proposals & Award Criteria**

The bidder can go ahead with any one or more equipments listed in Schedule A. The lowest price criteria shall be applied equipment wise on the total composite amount (inclusive of all charges except customs duty at destination country) for the equipment quoted [Annexure IX(a)]. The price quoted for CMC [Annexure IX(b)], Consumables and spares [Annexure IX(c)] (if any) will not be taken for arriving the L1 price. However these rates will be finalized for future requirements of supplies and the requirement will be intimated to the party either by HLL or MEA or by the host in the destination country and this price will be valid for period of four years after the warranty period.

Preliminary scrutiny of the proposal will be made to determine whether they are complete, required bid security (EMD) have been furnished, whether the uploaded documents have been properly signed and whether the bids are generally in order. Proposals not conforming to such preliminary requirements will be prima facie rejected.

Bids complying with all the eligibility requirements mentioned under Section III Clause 4 of this E-Tender document and fulfilling the specifications and schedule of requirements mentioned in (please refer annexure VIII for sheet) Section V shall be treated as substantially responsive bids. Responsiveness of the bids shall be determined on the basis of the contents of the bid itself and shall not be determined by extrinsic evidences.

HLL Lifecare Ltd, if required, may ask bidders for presentation on the solution offered. Failure on part of bidder to arrange the presentation on the date & place fixed by HLL shall result in the rejection of technical bids and financial bids of these bidders shall not be opened. Also, if it is found after presentation that the solution offered is not meeting the specifications prescribed by, such bidders shall be treated as substantially non- responsive. HLL Lifecare Ltd decision shall be final in this regard. The place for presentation shall be conveyed to the bidders at an

appropriate date.

Commercial bids of only those bidders will be opened who are found to be substantially responsive and the work shall be awarded to the commercially lowest bidder.

The price bid format for the equipments is common for all the equipments listed in schedule A. If the bidder is quoted for more than one equipments in a single bid, there is a possibility that the price quoted for technically disqualified equipment, if any, may also get revealed at the time of price bid opening. Hence it is recommended to apply sufficient caution by the bidders, that **price bid need to be submitted only for technically qualified equipments as per the technical specification of the equipment and minimum eligibility criteria.**

The bidder should carefully cross check the prices entered in figures with corresponding figures converted in words. In case of discrepancy between words and figures, the rates quoted in words shall be treated as final. The correct amount will be calculated by multiplying unit price with quantity and in case of any discrepancy, the corrected amount shall be considered and total of all corrected amount shall be bidder's total quoted amount.

In the copies of supply order/ contract/ agreement/ experience certificate submitted by the bidder, if the currency is other than Indian Rupees, the value of work in Indian Rupees shall be determined by using the exchange rate declared by Reserve Bank of India as on the last date of submission of technical/ commercial bids and the eligibility of the bidder shall be determined accordingly.

If more than one bidder happens to quote the same lowest price, HLL Lifecare Ltd reserves the right to split the order and award the contract to more than one bidder.

### **3. Section IV - Special Conditions of Contract (SCC) (Page no.19) may be read as follows;**

#### **Prices:**

The price quoted shall be considered firm and no price escalation will be permitted.

The prices quoted should be inclusive of all applicable costs like equipment cost, profit margin, freight, insurance, packing, port charges, documentation charges, demurrage charges, training cost, installation, testing & commissioning charges including manpower charges, warranty charges, loading & unloading charges, applicable statutory charges (if any) at the destination country etc till final destination as per the supply order. Applicable statutory government taxes in India(if any) like GST and Custom Duty at Swaziland need to be indicated separately in the prescribed price bid format. However MEA would reimburse taxes as per the applicable rates as on the date of invoice. The packing shall be transport worthy so as to prevent their damage or deterioration to goods during transit to their final destination as indicated in this document. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, and the remoteness of the Goods final destination and the absence of heavy handling facilities at all point in transit. However risk in good shall continue with supplier till goods are delivered in good condition and installed at end user's site duly certified by HLL Lifecare Ltd, end- user & Indian



Mission in Swaziland.

**Taxes and Duties:**

Applicable statutory government taxes in India (if any) like GST etc would be reimbursed by MEA as per the applicable rates as on the date of invoice. However bidder should indicate the necessary details in the prescribed price format. The items being imported in Swaziland as per schedule A from India/ third country will be exempted from payment of Custom Duty at Swaziland. The Government of Swaziland end user on the request of supplier shall provide necessary Custom Duty Exemption Certificate but the custom clearance will be the responsibility of the successful bidder. No Concession Tax Form (C/D) will be given by HLL Lifecare Ltd.

Bidder shall arrange to clear the consignment after following customs formalities at Swaziland and shall arrange to deliver the consignment to the end user individual site(s). The cost and risk of the consignment rests with the bidder till it is delivered to the end user individual site(s) and till the completion of Installation, testing, Commissioning and acceptance as per the relevant claused mentioned in the e-tender.

**4. Annexure IX - Pricing Sheet has been amended as follows;**

**Annexure IX (a)**

Name of the bidder:

Ref: RFX No.

Price Format (offered in INR)											
1	2	3	4	5	6	7	8	9	10	11	12
Sl. No.	Description of goods as per specification	Make/Model	Country of Origin	HS/ HSN Code	Unit of measurement	Quantity per set of equipment	Unit Price at Consignee Site (excluding GST)	Applicable GST (%)	Applicable GST value/ unit (8 x 9)	Unit Price at Consignee Site (8+10)	Total Price at Consignee Site (7 x 11)

**Note:** 1. All the information must be entered in the relevant columns of the price format excel attached.

2. Any Incidental Services (including Installation, Testing & Commissioning, Supervision, Demonstration and Training) at the Consignee site has to be mentioned as a sperate line item with HSN Code and applicable GST based on nature of the work

4. It is core responsibility of bidder to understand the site before bidding and make sure arrangement being provided by Government of Swaziland as per schedule A.

5. Any, remaining parts such as: Base for Machines, Sheds, Electrical Wire, Water Pipeline or any kind of additions / changes / modifications required would be responsibility of bidder only

6. It is the responsibility of bidder to arrange all parts for installation which is not covered by local government to be locally done within given timeline.

7. Bidder has to make arrangement to provide services / spare parts for all quoted machines in short time. It can be done by visit of engineer or setting up a local officer or by availing spare parts in advance.

**Annexure IX (b)**

<b>Comprehensive Maintenance Contract Quotes after Warranty</b>							
S.No	Description of goods as per specification	Make/ Model	Country of Origin	2nd Year of operation	3rd Year of operation	4th Year of operation	5th Year of Operation
				<b>(in Rs. incl. of all applicable duties/taxes)</b>			

**Annexure IX (c)**

<b>Consumables and Spares Quotation</b>							
<b>S.No</b>	<b>Description of goods as per specification</b>	<b>Category Spare/ Consumable</b>	<b>Spare or Consumable Description</b>	<b>Ordering Code</b>	<b>Unit of Measurement</b>	<b>Packing Size</b>	<b>Unit Price Incl. of all taxes</b>
<b>1</b>							
<b>2</b>							
<b>3</b>							
<b>4</b>							

All relevant clauses of the tender document are to be read in accordance with the above change and documents to be submitted are to be in compliance of the above. All other specifications, terms and conditions of the original tender document shall remain unchanged.

**Senior Manager  
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HLL Lifecare Ltd.  
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