

## Corrigendum-IX dated 24.04.2015

**Ref: Tender Enquiry No.: HSCC/PUR/AIIA/Medical Equipment/III/2014 dated 23.12.2014**

All Bidders are requested to note the following:

Sr. no.	Revised Schedule		
	Last dates and time of sale of tender enquiry documents.	Last date and time for submission of bid.	Time and date of opening of Techno – Commercial bids.
1.	06.05.2015, upto 17:30 hrs IST	07.05.2015, 14:00 hrs IST	07.05.2015, 14:30 hrs IST <b>1,2,3,4,5,6,7,9,13,14,16,17,26,43, 46,53,54,55,56,57,59,61, 62,73</b>

### Section - VIII Technical Specifications

#### ITEM No. 1 Pediatric Ventilator

Tender Point No.	Tender Specification	Amended/ Read As
2	Should have not less than 12 inch colored TFT screen for monitoring of the ventilation	Should have not less than 10 inch colored TFT screen for monitoring of the ventilation
4	Tidal Volume (2-1000ml or more)	Tidal Volume ( 2-300 ml or more)
5 (n)	Plateau Pressure	Stands Delete
7 (f)	Auto Mode/Auto Flow preferable	Auto mode / Auto flow or equivalent
7 (h)	Biphasic preferable	Biphasic or equivalent
10 (d)	CVT as appropriate	Stands Delete
7.3	Certified to be compliant with ISO-7767 for Oxygen monitoring	Certified to be compliant with ISO-7767 (or equivalent) for Oxygen monitoring

#### ITEM No. 2 ICU VENTILATOR

<b>1</b>	Microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for New born to Adult ventilation.	Microprocessor Controlled suitable for <b>Use in adult &amp; Pediatrics including infants</b>
<b>9 (b)</b>	Tidal Volume (Inspired & Expired)	<b>Tidal volume (Expired)</b>
<b>5</b>	Trending facility for 24 hours with minimum 5 minutes resolution	Trending facility for alarms.

<b>7 (j)</b>	Pressure & Flow Trigger	Pressure or Flow Trigger
<b>9.C</b>	Minute volume (Inspired and Expired)	Minute volume (Expired)
<b>10 (g)</b>	Advanced mode like pressure controller volume guaranteed	Advanced mode like pressure controller volume guaranteed or equivalent
<b>12.</b>	<p><b>Two autoclavable expiratory blocks including flow sensors should be provided with each ventilator and</b> no routine calibration should be required.</p> <ul style="list-style-type: none"> <li>➤ Permanent oxygen cell to be provided alongwith the machine, if not, then 10 oxygen sensors to be supplies along with the machine.</li> <li>➤ Trolley, Hinged Arm and other parts and accessories should be from the same principal company / same Manufacturer /same OEM.</li> </ul>	<p>Two autoclavable expiratory blocks including flow sensors should be provided with each ventilator and no routine calibration should be required.</p> <p>Permanent oxygen cell to be provided along with the machine, if not, then oxygen sensors to be supplied <b>throughout the warranty period.</b> Trolley, Hinged Arm, <b>Compressor</b> and other parts and accessories should be from the same company/same Manufacturer/same OEM "</p>
<b>13</b>	Spontaneous breathing trial	<b>Stands Delete</b>
<b>13.3</b>	Spontaneous breathing trial	<b>Stands Delete</b>
<b>15</b>	Automatic Patient Detection facility preferable	<b>Stands Delete</b>
<b>17</b>	In built Medical Air Compressor to be offered as standard part of equipment	In built Medical Air Compressor to be offered as standard part of equipment from the same manufacturer.
<b>7.3</b>	Certified to be compliant with ISO-7767 for Oxygen monitoring	Certified to be compliant with ISO-7767 (or equivalent) for Oxygen monitoring

**ITEM No. 3 Blood Gas Analyzer**

<b>2</b>	Essential Measured parameters; pH, pCO2, pO2, SaO2 with Co-oximetry, tHb, Na+, K+, Ca++, BUN, Cl-, Hemotocrit Lactate. All these parameters should be measured simultaneously.	Essential Measured parameters; pH, pCO2, pO2, SaO2 with Co-oximetry, tHb, Na+, K+, Ca++, Cl-, Hemotocrit Lactate. All these parameters should be measured simultaneously.
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**ITEM No. 4 Patient Warming System**

7	Control Unit should have touch screen / keypad display to select & display temperature of all four segments at a time.	Control Unit should have touch screen / keypad display to select & display temperature of <b>both the</b> segments at a time.
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**ITEM No. 17 Premium End Top Of The Live Portable 2d-Echocardiography Color Doppler System**

	Should have a Dynamic range of 170 DB min	Should have a Dynamic range of 170 DB min (±10)
	Adult Echo Transducer: Transducer technology for audit probes should be clearly mentioned in technical bid. 1-5 Mhz	Adult Echo Transducer: Transducer technology for audit probes should be clearly mentioned in technical bid. 1-5 Mhz (±1)
	Paediatric Echo Transducer – Paediatric 3-8 MHz	Transducer frequency 3-8 MHz(±1)
	Trans esophageal probe 2 – 7 MHz	Trans esophageal probe 2 – 7 MHz (±1)

**ITEM No. 26. Autoclave (Fully Automatic Horizontal)**

1.	Horizontal rectangular high speed fully automatic steam sterilizer with capacity of 400-500 liters.	Compact Horizontal rectangular high speed fully automatic steam sterilizer with capacity of 400-500 litres or atleast 6 STU
5	Machine should be made of good quality stainless steel like AISI 3161/304/3t6TL	The chamber, jacket & door should be made of good quality stainless like AISI 316L or AISI 316 Ti steel
6	Machine should be made of good quality stainless steel like AISI 31.61/304/3t6TL	<b>Stands Delete</b>
7	The chamber should be of good quality ISI stainless steel covered with glass wool insulation.	The chamber & Jacket should be of good quality AISI 3151or 316T1 Glass wool insulation for safety & preventing Stainless Steel heat loss.
12	The unit should be provided with Dual microprocessor based control panel.	The unit should be provided with Dual microprocessor / PLC based control panel.
13	Warning and error messages by microprocessor.	Warning and error messages by microprocessor/PLC.
18	Carriage should have two stainless steel detachable arms for protection to load on three sides.	<b>Stands Delete</b>
20	The machine should be US FDA 1	USFDA/ European CE &

	European CE approved. Certificate should be provided.	PED(97/23/EC)/ASME certified, should also comply with EN 285
<b>26</b>	List of user & performance report of the quoted model should be provided from Government hospitals /institute of repute	Delete

**ITEM No. 46 PULSE OXIMETER**

<b>1.1</b>	Should be upgradeable to non invisible co - oximetry	<b>Delete</b>
<b>3.1</b>	Display- LCD, Backlight illuminated with Nellcor technology or equivalent	Display - LCD, Backlight illuminated with Masimo technology
<b>3.10</b>	Integrated Printer	Deleted
<b>3.11</b>	Battery Backup operating time 5 hours	Should be upto 2 hours

**ITEM No. 53 Portable Ultrasound with Color Doppler System**

<b>Tender Specification</b>	<b>Amended/ Read As</b>
Flat LCD/TFT monitor of at least 10 inches or more	Flat LCD/ TFT Monitor of at last 15 inches or more.
Onboard Storage of at least 1000 or more	Onboard storage of at least 50000 or more

**ITEM No. 55 Digital X - Ray**

<b>Instructions</b>	<b>Instructions</b> 1. Vendor will get approval for the site plan from AERB for installation of the equipment. 2. Any civil and electrical work required at the site for installation of machine is to be done by the vendor including dismantling of preexisting machine if any at the site.	Approval & AERB required for the Equipment
<b>2 Generator</b>	Output 30 KW or more	Output 32 KW ore more
<b>4. Flat Panel Detector: Point 1</b>	Flat Panel detector should be of size 14 x 14 inch or more	Flat Panel detector should be of size 14 x 17 inch or more

**ITEM No. 56 ELECTRO SURGICAL UNIT (ESU)**

<b>3.2</b>	Should provide monopolar output for cut, coagulation(fulguration& spray) & blend	Should have minimum monopolar cutting of 300W and monopolar coagulation of 100 w.
<b>3.3</b>	Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation	Should have minimum bipolar cutting of 130w and bipolar coagulation of 100 w
<b>3.10</b>	Simultaneous access to mono and bipolar by 2 or more users	Stands Deleted
<b>3.1</b>	Simultaneous access to mono and bipolar by 2 or more users	Stands Deleted
<b>4.2</b>	<p>The accessories should include</p> <ul style="list-style-type: none"> <li>(a) trolley,</li> <li>(b) mains cable with power plug for standard Indian sockets,</li> <li>(c) foot switches for different outputs,</li> <li>(d) reusable (2 Nos. each for Adult and Children) and single use (100 Nos. each for Adult and Children) neutral electrode for adults and Children along with cable for neutral electrode and fixation device wherever required,</li> <li>(e) Reusable &amp; sterilizable (5 Nos.) and disposable electrode handle with finger switch</li> <li>(f) Set of electrodes (flat tip short, flat tip long &amp; pin point- 5Nos. each) with electrode container with holder</li> <li>(g) tip cleaner,</li> </ul> <p>To quote set of standard accessories with quantity which is supplied with Diathermy,</p> <ul style="list-style-type: none"> <li>(h) bipolar forceps with cable,</li> </ul> <p>To quote set of standard accessories with quantity which is supplied with Diathermy,</p> <ul style="list-style-type: none"> <li>(i) cable for connecting to standard mono polar and bipolar laparoscopic instruments,</li> </ul> <p>To quote set of standard accessories with quantity which is supplied with Diathermy,</p> <ul style="list-style-type: none"> <li>(j) Dedicated instruments for open and laparoscopic monopolar and bipolar use (5 Nos</li> </ul>	<p>The accessories should include</p> <ul style="list-style-type: none"> <li>(a) trolley,</li> <li>(b) mains cable with power plug for standard Indian sockets,</li> <li>(c) foot switches for different outputs,</li> <li>(d) Reusable neutral electrode with cable for Adult &amp; Children - 2 Nos. Each</li> <li>(e) Resuable hand controlled pencil with cable – 2 Nos.</li> <li>(f) set of electrodes for hadn pencil</li> <li>(g) Bipolar forceps for open surgery with cable</li> <li>(h) reusable cable for monopolar laparoscopic hand instruments – 2 Nos.</li> <li>(i) Reusable cable for bipolar laparoscopic hand instruments with bipolar forceps – 2 nos</li> </ul>

	each). The accessories and their quantity will be chosen from among the ones listed above as well as those listed at 4.4 depending upon actual requirement.	
<b>4.3</b>	The system should be capable of accepting standard accessories of major international brands, which should be specified and for which suitable adaptor, if required, is to be quoted	<b>Stands Delete</b>
<b>7.1</b>	Should be US FDA & European CE approved products	<b>US FDA or European CE</b>

**ITEM NO 57. HARMONIC SCALPEL**

<b>Nomenclature</b>	Harmonic Scalpel	Ultrasonic Cutting & Coagulation
<b>4.b</b>	b. Dissecting grasper 5mm dia for Coagulation 18-20 cms. or more	Dissecting grasper/ <b>Shears</b> 5mm dia for Coagulation 18-20 cms or more.
<b>5 a.</b>	Dissector Grasper 5mm diameter 30cm-45cm long	Dissector Grasper / <b>Shears</b> 5mm diameter 30cm-45cm long
<b>1.1</b>	Ultrasound is the basis for an efficient surgical instrument: the HARMONIC SCALPEL cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. HARMONIC SCALPEL technology controls bleeding by coaptive coagulation at low temperatures ranging from 50°C to 100°C: vessels are coapted (tamponaded) and sealed by a protein coagulum. It Should not be combined with any other energy source	Ultrasound is the basis for an efficient surgical instrument: the HARMONIC SCALPEL cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. HARMONIC SCALPEL technology controls bleeding by coaptive coagulation at low temperatures ranging from 50°C to 100°C: vessels are coapted (tamponaded) and sealed by a protein coagulum
<b>3.1 (9)</b>	It should have a horizontal / torsional vibration	horizontal / torsional / longitudinal
<b>3.1 (10)</b>	Should be capable of sealing vessels up to 5mm in diameter	Should be capable of sealing vessels up to 5mm -7mm in diameter

**ITEM No. 59 Rapid Infusion Pump**

The equipment should have Roller type Peristaltic pump /volumetric pump	The equipment should have Roller type Peristaltic pump /volumetric pump technology for delivery of IV fluids & Blood products ranging between 2.5 ml to 750 ml per minute.
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**ITEM No. 61. SINGLE PUNCTURE LAPROSCOPE**

<b>3.2 (b)</b>	High Intensity Xenon Light Source Built in Anti Fog	High Intensity Xenon Light Source
<b>3.2 (b)</b>	High Intensity Xenon Light Source Universal Jaw assembly to adapt cable of any make.	High Intensity Xenon Light Source Universal Jaw assembly to adapt cable of any make / to provide suitable adaptor to accommodate cable of standard probe.
<b>3.20</b>	3.20. Carbon Dioxide insufflators – Specifications Provision for preheating gas to body temperature.(optional)	Should have facility for preheating gas to body temperature.
<b>7.1</b>	Should be US FDA, CE, UL or BIS approved product	Should be US FDA or European CE

**ITEM No. 62. OPERATIVE GYNECOLOGICAL LAPAROSCOPE SET**

<b>3.1 J</b>	Clip applicator: 10/5 diameter, working length of at least 30cms should be quoted with adequate no of spare clips.	Clip applicator: 10/5 diameter, working length of at least 30cms should be quoted with 100 clips
<b>3.4</b>	Full High Definition (HD) Endoscopic camera with T.V. medical grade monitor and printer.	Full High Definition (HD) Endoscopic camera with HD medical grade monitor and printer
<b>3.4 Pt no. 13</b>	Built in anti fogging device	<b>Delete</b>

<b>3.4 B) Camera Control Unit Point No. 2 Point No. 3 Point No. 4</b>	<p>2. The Camera CCU should be capable of either down-converting HD signals to SD or up-converting SD signals to HD. Point no. 3 :It should have Provision of working/compatible With lower models of camera heads. Point No.4: It should allow images from one format to be viewed, on displays in different format i.e. it is the HD system is compatible with both SD and HD.</p>	Delete
<b>3.4 B 2</b>	The Camera CCU should be capable of either down-converting HD signals to SD or up-converting SD signals to HD.	The Camera CCU should be capable of converting SD signals to HD.
<b>3.4 B 5</b>	Should have multiple video input and outputs – BNC, RGB, Y/C, DVI – D socket, digital SDI signal DV for Digital recording etc.	Should have multiple video input and outputs – BNC, RGB, Y/C, DVI – D socket, digital SDI signal DV/SD-SDI for Digital recording.
<b>3.4 D Video Color Printer Point 3</b>	Memories at least 4 frame	<b>Delete</b>
<b>3.5 A) Xenon Light Source Point no.1</b>	A). Xenon light source  1-300 watts bulb minimum 1000 hrs. with at least Four spare bulb of 15V 300 watts	1-300 watts bulb minimum 500 hrs. with at least Four spare bulb of 15V 300 watts
<b>3.5 A) Xenon Light Source Point no.1</b>	A). Xenon light source  1-300 watts bulb minimum 1000 hrs. with at least Four spare bulb of 15V 300 watts.	1-300 watts bulb minimum 500 hrs. with at least Four spare bulb of 15V 300 watts
<b>3.5 A) Xenon</b>	Buit in anti fogging device	<b>Delete</b>



<b>Light Source Point no.6</b>		
7.1	US FDA, CE, UL or BIS approved product	US FDA or CE or UL or BIS approved product
	B). Verres pneumoperitoneum needle. Spring loaded blunt stylet and leur lock – various sizes -7, 10, 13,15cms.	Spring loaded blunt stylet and leur lock –various sizes - 10,12,15cms
<b>B.2) Camera Control Unit</b>	2. The Camera CCU should be capable of either down-converting HD signals to SD or up-converting SD signals to HD.	The Camera CCU should be capable of converting SD signals to HD.
	4. Screen size diagonal 23/24/26” Ultra high resolution, more than 2 MP.	Screen Size 24”/ 26” HD
	5.Aspect ratio 16:10	Should be 16 : 9/10
	6. Should preferably have advanced technology feature to perform interlace to Progressive conversion of the image.	Delete
A). Xenon light source	6- Built in antifog air pump.	Delete
	7- Universal jaw assembly to adapt cable of any make.	Delete
7.1	7.1 Should be US FDA, CE, UL or BIS approved product	USFDA or European CE

**ITEM No 73. Mobile Examination Lights based on LED Technology - Wall mounted lights (LED) & Floor Mounted**

High fail-safety through optical light system consisting of between 70 to 120 LED's, with its own lens. In case of failure of one light source (LED), the illumination of the light field is not affected	<b>Deleted</b>
Light intensity at 1 m distance: min 120000 Lux or better	Light intensity at 1 m distance: min 50,000 Lux or better

Size of Light field at 1 m distance 18- 28 cm	Size of light field at 1m distance should not be less than 15 cm and working range should be 70 – 140 cm
Colour temperature: between 4000 K – 5500 k (Fixed)	Colour temperature : Should not be less than 4500K
Mobile light should be supplied along with battery back up of about 1 hours	Mobile light should be supplied along with battery back up of about 1/2 hour
LED Surgical Lighting system should meet applicable standards such as FDA or CE approved product	US FDA or European CE

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPP as corrigendum /amendments etc. if any, will be notified on this portal only, no separate advertisement will published in the news papers.

s/d  
Director (AIIA)