

**AMENDMENT - I**

**Dated: 24.09.14**

**Invitation for Bids for Supply, Installation, Testing & Commissioning of Medical Equipments for 200 Bedded Nepal- Bharat Maitri Emergency and Trauma Centre (NBMETC), Kathmandu, Nepal**

**Bid No.: BID REFERENCE: IFB No. HSCC/PUR/NEPAL/2014-15/1 Dated 27.08.2014**

Bidder is requested to note the following amendments:

**Amendment – Technical**

**Item No. 1 – Blood Gas Analyser**

<b>Sr. No.</b>	<b>Tender Specification</b>	<b>Amended As</b>
10. Electrodes	Maintenance free electrodes with shelf-life of not less than one year	Maintenance free electrodes and should be individually replaceable with shelf life not less than one year

**Item No. 3 – Platelet Agitator**

<b>Sr. No.</b>	<b>Tender Specification</b>	<b>Amended As</b>
8	It should have provision for 4 day inkless chart recorder with battery backup for continues operation during power failure	It should have provision for 4 day inkless/inkpen chart recorder with battery backup for continues operation during power failure
		Additional requirement: ISO/CE Mark Certification

**Item No. 4 – Blood Cell Separator Apheresis Machine**

<b>Sr. No.</b>	<b>Tender Specification</b>	<b>Amended As</b>
10	Should allow collection of up-to two units of Leucodepleted RBC Concentrates, Both Autologous and Homologous Red Blood Cells and Leuco-depleted Platelets. Red Blood Cells and Plasma in two separate bags. Leuco-depleted Platelets and Plasma in two separate bags.	Should allow collection of up-to two units of Leucodepleted RBC Concentrates, Both Autologous and Homologous Red Blood Cells and Leuco-depleted Platelets. Red Blood Cells and Plasma in two separate bags. Leuco-depleted Platelets and Plasma in two separate bags. RBC exchange should be possible.
		Additional requirement: USFDA/CE approved certification

**Item No. 8 – Anaesthesia Workstation**

<b>Sr. No.</b>	<b>Tender Specification</b>	<b>Amended As</b>
7	Electronic gas mixing with less than 1 second mixer response time	Electronic/ Pneumatic Gas Mixing
8	Graphic and Numerical Display of the Respiratory Parameters like Flow, Pressure, Inspired and expired Oxygen, Nitrous Oxide & End Tidal Vapour with a 12" TFT Screen	Graphic and Numerical Display of the Respiratory Parameters like Flow, Pressure, Inspired and expired Oxygen, Nitrous Oxide & End Tidal Vapour with a 8" or more color TFT Screen Display
Vaporisor	<ul style="list-style-type: none"> <li>New generation (Tec7) maintenance free Temperature, Flow and Pressure Compensated Vaporizer for Halothane, Isoflurane and Sevoflurane mounted to a Selectatec back bar manifold for two</li> </ul>	<ul style="list-style-type: none"> <li>New generation (Tec7 or equivalent) maintenance free Temperature, Flow and Pressure Compensated Vaporizer for Halothane, Isoflurane and Sevoflurane mounted to a Selectatec back bar manifold for</li> </ul>

	Vaporizer.	two Vaporizer.
Ventilator	<ul style="list-style-type: none"> <li>Ventilator shall be capable of at least 120 L/min peak flow to facilitate rapid movement through physiologic "Dead Space" in the Pressure Control Mode.</li> </ul>	<ul style="list-style-type: none"> <li>Ventilator shall be capable of at least 100 L/min or more peak flow to facilitate rapid movement through physiologic "Dead Space" in the Pressure Control Mode.</li> </ul>
Monitor	<ul style="list-style-type: none"> <li>Modular in design</li> </ul> Parameters <ul style="list-style-type: none"> <li>Invasive BP Two Channel simultaneous use with Two Reusable and Ten Disposable</li> <li>Neuro Muscular Transmission monitoring complete with sensor</li> </ul>	<ul style="list-style-type: none"> <li>Modular/Preconfigured in design</li> </ul> Parameters <ul style="list-style-type: none"> <li>Invasive BP Two Channel simultaneous use with Ten Disposable</li> <li>Neuro Muscular Transmission monitoring Stand alone complete with sensor</li> </ul>
		Additional requirement: US FDA certification

### Item No. 9 – Fiber operative Bronchoscope-OT

Sr. No.	Tender Specification	Amended As
3	Video bronchoscopes should be based on charge couple device (CCD) to collect image data.	Deleted
4	The CCD should be in the control section	The CCD camera should be compatible with Bronchoscope
5	For Adult Bronchoscope: Optical System: Field-120 degrees or more Depth of Field: 3-100 mm Instrument Channel diameter inner diameter =2.8 mm or more Bending range: Up/down= 180/130 degrees  Channel diameter=2.8 mm or more	Filed-110 degree or more Depth of field :3-50 mm Instrument Channel diameter inner diameter =2 to 3mm Bending range: Up/down= 150-180/100-130 degrees Channel diameter = 2 to 3 mm
6	For Pediatric Bronchoscope: The working length should be more than 550mm	The working length should be 300 to 550mm
8	Light weight, high resolution with integral (non-detachable) light cable	Light weight, high resolution with light cable
10	Leak testing facility with regulated (flow and pressure) air feeding (non-pressure gauge System) through light source.	Leak testing facility should be available
11	Laser and electro cautery compatibility	Delete
15	Camera with CCD chip with monitor	Camera with 3CCD HD monitor, Medical Grade
22	Halogen light source (compact, weight less than 5-6 kg; minimum 250 watt; with stand-by lamp option)	Halogen light source (compact, weight less than 5-6 kg; minimum 150-250 watt; with stand-by lamp option)/ Xenon/LED
23	Built in air pump for distension and automatic leakage testing	Delete
25	Pump pressure 0.3-0.6 kg/cm <sup>2</sup> (at 0 cc/min); 0.18 kg/cm <sup>2</sup> or below (at 2000 cc/min)	Delete
		Additional requirement : 1.Trolley/Cart to accommodate the complete set 2.Certification of USFDA or European CE 3.All the accessories should be from(incl. Scope camera etc)same manufacturer

### Item No. 13 – Automatic Steam Sterilizer

Sr. No.	Tender Specification	Amended As
	Size - 432L The Chamber of size - 600 x 600 x 1200mm (Minimum capacity) should be constructed of AISI-316 Stainless steel	Minimum Size - 432L The Chamber of approx size - 600 x 600 x 1200mm (Minimum capacity) should be constructed of AISI-316L Stainless steel.
	The Jacket of the sterilizer should be of the channel type for providing additional strength to the chamber and made of Boiler graded steel/Stainless steel	The Jacket should be made of AISI 316L Stainless steel
	The Sliding/hinged Doors made of AISI-316 Stainless steel.	The Sliding/hinged Doors shall be made of AISI 316L Stainless steel.
	All Steam Piping should be made of stainless steel with TIG welding joints.	All Steam Piping should be made of AISI 316L stainless steel with TIG welding joints.
	<p><b>Additional Work – Turnkey for installation and commissioning of automatic steam sterilizer are the sole responsibility of the contractor:</b></p> <ul style="list-style-type: none"> <li>• The turnkey work includes all modifications/repairing/dismantling/patch work at the built-up space provided at the hospital site and other related works in the Automatic Steam Sterilizer Room required for the smooth and efficient functioning of the centre. These works shall comply with all relevant safety and standards guidelines. The vendor is fully responsible for installation and commissioning of all equipment.</li> <li>• Bidder must take into consideration the costs to be incurred for any additional work pertaining to Civil, Electrical, Plumbing, Sanitary and any other protections relevant as per State/Central Govt. regulation/local authority, Servo stabilisers, U.P.S. etc. required for successful installation testing and commissioning of the system and the offered price should include all such costs, each Schedule is to be considered a package in itself and contractor to execute the order package on a “turnkey basis”.</li> <li>• <b>Electric distribution panel/TP &amp; DP</b> for the Automatic Steam Sterilizer complete with all switchgears, wiring and controls etc complete as per specifications and drawings. (Switch gears of L&amp;T/ Siemens/ ABB/GE or Schneider make).<b>Earthing system</b> of Control panel and other electrical instrument and accessories in the Autoclave Room <b>as per standard guidelines of BIS(Latest edition)</b>. All cable trenches and railings should be made wherever required.</li> <li>• Laying of <b>GI water pipe line for Plumbing</b> with necessary taps, joints, elbows, Unions, Tees and valves of GI made and IS-1239 standard (Latest version) to various supply points in the Autoclave Room from single point supply(Provided by the hospital). Contractor will be responsible for supply and installation of water storage tanks and Booster pumps. Individual plumbing lines with valves if required.</li> <li>• Providing fixing of <b>Electrical Gadgets</b> like ELCB, MCB, Fluorescent light, Light Points, Power points, Cool air Fans, Exhaust fan etc in the Autoclave Room.</li> <li>• Installation of MCB, ACB, ELCB &amp; OCB of Havell/Siemens/L&amp;T/Schneider etc <b>for Control Panel</b> for Autoclave Room.</li> <li>• Supply, Installation of all <b>Electrical cabling</b> must be of IS: 1554 (As per latest amendment) standard and wiring as per IS: 732 standard and proper earthing of all Autoclave Room equipments and other electrical instrument and accessories in the Automatic Steam Sterilizer room as per standard guidelines of BIS. All cable trenches and railings wherever required</li> </ul>	

- Construction/laying of **Draining system** from all the equipments/Sinks to the main drain (outside the Room) with pipelines, drain port, proper trap and flow system and tapping.
- **Finishing**
- Antifungal painting(PU) on the Ceiling. Fixing of glazed tiles upto the 7 ft. height of the wall.
- The contractor should provide **fire extinguishers** with essential accessories. Fire extinguishers should be certified by respective regulatory board.
- Proper **Ventilation system** including fans and exhaust fans should be provided in the Autoclave Room in case HVAC is not there. **Exhaustion of hot air and Ventilation** for creating comfortable working zone within the Autoclave area. Motors shall be of continuous duty S1 type of IS: 325 standard (Latest version) and of Kirloskar/NGEF/Siemens/ABB/GEC/ Crompton Greaves make.

**In addition to the above mentioned equipment/appliances**, if the contractor thinks it necessary to include any other equipment/appliances, accessories etc. for the Autoclave Room then that may be provided after approval from Engineer in-charge.

The sizes are approximate. Minor variations in sizes shall be acceptable subject to prior approval of the Engineer.

#### APPROVED MAKES FOR AUTOCLAVE & AUTOCLAVE ROOM

1.	Air Blower	SWAM/ EVEREST/ KAY/Beta
2.	Blower/Pump/ Motor	KIRLOSKAR/ NGEF/ SIEMENS/CROMPTON/ABB
3.	Compressor	EMERSON/ TECHUMSHAH/COPELAND/DANFOSS
4.	Cable	SKYTONE/KEI/UNIVERSAL/NATIONAL/RRCABLE
5.	Aeration System	NORTON/ UEM/ V.K.ENVIROTECH/MM AQUA
6.	Butter Fly Valve	AUDCO/ KEYSTONE/ KSB/CRI/Castle
7.	Control Panel	L & T/ SIEMENS/ SCHNEIDER
8.	Valve	LEADER/ ZOLOTO /CRI/Castle
9.	PVC Pipe Class III with Fitting	FINOLEX/ SUPREME/ PRINCE/ ORI-PLAST
10.	G.I. / M.S. Pipe Heavy Class	TATA/ JINDAL/SAIL /SURYA PRAKASH/HSL/ITC
11.	MCCB/Contactor/Relay	L&T/ABB/SIEMENS/SCHNEIDER
12.	Pressure Gauges	H.GURU /FIEBIG
13.	Stainless steel	TATA/SALEM/JINDAL/MUKUND/ BHAYANDER/ AMBICA
14.	GI Sheets	TATA/SAIL/JINDAL/BHUSHAN STEEL
15.	Aluminium Sheet	BALCO/NALCO/HINDALCO
16.	Grilles/Diffusers	RAVISTAR/CARYAIRE/ MAPRO/DYNACRAFT

Note :

- The contractor shall be responsible for the complete works including submission of working drawing.
- The contractor should provide complete Operation manual, Equipment manual, Service manual and manuals for all systems and subsystems.
- The contractor should provide Final electrical safety test, system test and calibration to be done by authorized person with test instruments.
- All electrical accessories like cable wire, electrical outlets, switches etc supplied by the contractor should be fire proof of reputed make, certified for electrical safety.
- Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of HSCC.
- The contractor should provide test certificate for all materials and equipments used for Autoclave Room
- Training of personnel of the Institute should be made by the contractor.
- The contractor should prepare and submit layout plan as well as As-Built drawing for Steam Pipeline, Electrical Wiring, Electrical Distributional Panel, Plumbing, Fire Fighting System, Ventilation and Drain line to HSCC for approval before beginning of supply and installation and As-Built drawing after installation.
- The contractor should provide test certificate for all materials along with manufacturer's test certificate and equipments used for Autoclave Room.
- Third party quality certification of the Automatic Steam Sterilizer as per bid conditions

#### **Amendment – Commercial**

- Mobile trolley with Auto loading and unloading mentioned in Item no.11 is deleted from the requirement.
- Custom duty Exemption Certificate will be provide by Government of Nepal, Nepal government is not applying Custom, taxes etc on Medical equipment supplied under this project.
- Bidder is requested to note the following amendment in the bid sale, submission and opening date of the aforesaid bid:

<b>S. No.</b>	<b>Details</b>	<b>Revised schedule</b>
1.	Last date and time for the sale of bid	09.10.2014
2.	Last date & time for submission of bid	10.10.2014 by 14.30 hrs.
3.	Techno-commercial opening of bids	10.10.2014 by 15.00 hrs.
4.	Venue of bid opening	HSCC (India) Ltd., E--6A, Block-E, Sector-1, NODA (U.P.)

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

S/d

Joint Secretary –DPA (III)  
Ministry of External Affairs,  
New Delhi