AMENDMENT – I **Dated:- 30.12.2013**

Subject: Amendment to the tender Enquiry Document.

Ref: Tender Enquiry No.: HSCC/PUR/AIIA/HOSPITAL EQUIPMENT/13

The pre-bid meeting for the referred tender enquiry was held on 10.12.2013 & 11.12.2013. The following amendments are being incorporated in the referred tender enquiry document.

Bidders are requested to note the following amendment in the bid sale, submission, opening date of the aforesaid bid & Technical & Commercial Specifications:-

The closing and opening date of referred tender is hereby further extended as per the following Schedule. The bidders are requested to visit the www.hsccltd.co.com or http://eprocure.gov.in/cppp or www.indianmedicine.nic.in for further information.

		Revised Schedule
1.	Last date and time for the sale of bid.	14.01.2014 Up to 16.30hrs IST
2.	Last date & time for submission of bid.	For Package 1 to 20 on 15.01.2014 at 11.00 hrs IST For Package 21 to 40 on 16.01.2014 at 11.00 hrs IST For Package 41 to 58 on 17.01.2014 at 11.00 hrs IST For Package 59 to 72 on 20.01.2014 at 11.00 hrs IST
3.	Techno – Commercial opening of bids.	For Package 1 to 20 on 15.01.2014 at 11.30 hrs IST For Package 21 to 40 on 16.01.2014 at 11.30 hrs IST For Package 41 to 58 on 17.01.2014 at 11.30 hrs IST For Package 59 to 72 on 20.01.2014 at 11.30 hrs IST
4.	Venue of bid opening	HSCC (India) Ltd E-6 A, Block – E, Sector – 1, Noida (U.P) Ph No. 0120 – 2540153

SCC POINT NO. 12
TENDER CURRENCIES12.1

Existing:

The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.

Amended as:

The tenderer supplying already imported goods shall quote only in Indian Rupees and shall enclose **"BILL OF ENTRY** "Without this Bill of Entry payment cannot be made.

GIT Clause 21.2- Signing and Sealing of Tender

For :

A tenderer shall submit three copies of its tender marking them as "Original", "Duplicate" and "Triplicate"

Read as:

A tenderer shall submit 2 copies of its tender marking them as "Original" and "Duplicate"

GCC clause 8.1 : - Inspection, Testing & Quality Control

FOR:

The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

Read as:

The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, & if same is accepted by purchaser / consignee / PSA/ PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro. Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

GCC clause 8.6 : - Inspection, Testing & Quality Control

For:

The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.

Read:

The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser / consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser / consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

GIT Clause 16.3

16.3 Only one tenderer is permitted to quote for the same manufacturer irrespective of models.

READ AS:

a). If a tenderer, either the Indian Agent on behalf of the Principal / OEM or Principal / OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender

b). If an agent submits bid on belhalf of the Principal / OEM, the same agent shall not submit a bid on behalf of another Principal / OEM in the same tender for the same item / product.

In the Price Schedule Section XI Price Schedule for Annual Comprehensive Maintenance Contract after Warranty Period. (NOTE 3)

FOR:

The taxes to be paid extra.

READ As:

The taxes to be paid extra. Present rate of taxes to be indicated.

In the Tender form (Section X) of the Tender Enquiry Document

For:

"for the sum of _____ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

Read As:

"for the sum as shown in the price schedules attached herewith and made part of this tender."

GCC Clause 15.5

FOR:

In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser

READ As:

In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended till the completion of the original warranty period of the main equipment.

In GIT Clause 34.1 with regard to CMC charges.

For:

Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 3 years after the warranty period shall be added to the bid price for evaluation and will be calculated at a discounted rate of 10% per year.

Read as:

Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 3 years after the warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum."

In the price schedule for CMC

For :

1	2	3	4			5
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.			Total Annual Comprehensive Maintenance Contract Cost for 3 Years [3 x (4a+4b+4c)]
			1st	2nd	3rd	
			a	b	c	

Read as:

1	2	3	4			5	6
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.			Total Annual Comprehensive Maintenance Contract Cost for each unit for 3 years (4a+4b+4c)	Annual Comprehensive Maintenance Contract Cost for 3 Years [3 x 5]
			1st	2nd	3rd		
			a	b	c		

FOR:-

SECTION – XI PRICE SCHEDULE :

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5					6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)					Total price on CIP (at Consignee Site) basis 4X 5 (e)
				FOB price at port/ airport of Lading (a)	Carriage & Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Custom Clearance, Transportation to Consignee Site, Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site** (c)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (d)	Unit Price on CIP (at Consignee Site) basis (e) = a+b+c+d	

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1)If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

2)The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C

3)The Tenderer will be fully responsible for the safe arrival of the goods at Consignee site.

Indian Agent:

Indian Agency Commission - ___% of FOB

Signature of Tenderer_____ **Name**_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

Date: _____ **Seal of the Tenderer**_____

AMENDED AS:

SECTION – XI PRICE SCHEDULE

B)PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5					6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)					Total price on CIP (at Consignee Site) basis 4X 5 (e)
				FOB price at port/ airport of Lading (a)	Carriage & Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Custom Duty (on CDEC basis), Custom Clearance, Transportation upto Consignee Site, Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site** (c)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (d)	Unit Price on CIP (at Consignee Site) basis (e) = a+b+c+d	

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the goods at Consignee site.

Indian Agent:

Indian Agency Commission - __% of FOB

Signature of Tenderer_____ Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

Date: _____ **Seal of the Tenderer**_____

FOR: - PACKAGE No. 2

1	Video Laryngoscope	2	1,60,120
2	Fibre optic Bronchoscope Adult	1	
3	Rigid Laryngoscope	2	

READ As:

PACKAGE No. 2 (A)

1	Video Laryngoscope	2	1,40,120
2	Rigid Laryngoscope	2	

PACKAGE No. 2 (B)

1	Fibre optic Bronchoscope Adult	1	20,000

FOR:

PACKAGE No. 39

1	Portable Ultrasound Machine	1	50,000
2	Ultrasonic cutting & Coagulating Device	1	

READ As: PACKAGE 39

1	Ultrasonic cutting & Coagulating Device	1	14,000

FOR

PACKAGE NO. 59

1	Ultrasound Machine	1	1,30,000
2	Portable Ultrasound With Color Doppler System	1	

READ As PACKAGE NO. 59

1	Ultrasound Machine	1	1,66,000
2	Portable Ultrasound With Color Doppler System	2	

FOR:-

FDA

READ As:

US FDA

FOR:-

CE

READ As:

European CE

PACKAGE – 1 (1. VENTILATOR PORTABLE)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
2.1	The portable ventilator should be light weight(< 10 kg)	Please change the weight limit, which should be < 12 kg including inbuilt battery	No Change
3.4	**(e):** FiO2: 20 – 100%	Kindly read it as FiO2: 40 % or 100 % as no ventilator can give 20%. Also in transport, atleast 40% O2 mix is necessary.	**(e):** FiO2: 40 – 100%
3.4. (a):	Tidal Volume: 50 ml – 1500ml	Kindly read it as TV- 100ml to 1500 ml as minimum tidal volume range in a transport ventilator starts with 100 ml.	No Change

3.5:	Battery backup for minimum 1 hours	Kindly read it as "Battery backup for 4 hours" as during transport , 1 hour battery backup is inadequate. The machine should give an uninterrupted operation during interhospital, intrahospital transport or power failure. For longer durations, at least 4 hours battery backup is necessary.	Battery backup for minimum 4 Hours
7.2 :	Product should be US FDA/CE or ISI approved	Kindly read it as "Product should be US FDA and European CE approved." US FDA approval for medical devices is of substantial importance in preventing impairment of human health, or that do not present a potential unreasonable risk of illness or injury. Thus ensuring that the product is of best quality.	Product should be US FDA / European CE approved.

PACKAGE – 1 (2 ICU Ventilators):

Point No.	Existing Tender Specification	Amendment requested by M/s. Bidder	Amended by AIIA / HSCC
Tender Point No 4 (a) :	End tidal CO2 with capnography.	End tidal CO2 with capnograpghy integrated in ventilator with display of values and EtCO2 waveform on the screen	End tidal CO2 with capnograpghy integrated in ventilator with display of values and EtCO2 waveform on the screen.
Tender Point No 4 (c)-	3 loops- P-V, F-V, P-F with facility of saving of 3 Loops for reference	"3 loops- P-V, F-V, P-F with facility of saving of 1 Loop for reference"	No Change
Tender Point No 5 :	Trending facility for 72 hours with minimum 5 minutes resolution for recent 24 hours	Kindly read it as trending facility for 24 hours	No Change
Tender Point No. 13.b:	Occlusion Pressure	Request to please omit this point. It tells us the negative pressure generated by the patient, patient's activity can also be found out by monitoring the spontaneous breathing effort made by the patient in SIMV mode (without pressure support)	No Change (Occlusion pressure is required other modes too)

Tender Point No. 14:	Nebuliser with capability to deliver particle size of <3 micron & to be used in both Off and On line.	Nebuliser should be inspiratory synchronized	No Change
Tender Point No. :	Expiratory block should be autocavable and no routine calibration required	**Expiratory block should be autocavable and no routine calibration required and extraexpiratory valves for highly infectious patients- 20 nos.**	Expiratory block should be autocavable and no routine calibration required and extraexpiratory valves for highly infectious patients- 20 nos.
		Point to be added: ➢ Permanent oxygen cell to be provided alongwith the machine, if not, then 10 oxygen sensors to be supplies along with the machine. ➢ Trolley, Hinged Arm and other parts and accessories should be from the same principal company / same Manufacturer /same OEM.	➢ Permanent oxygen cell to be provided alongwith the machine, if not, then 10 oxygen sensors to be supplies along with the machine. ➢ Trolley, Hinged Arm and other parts and accessories should be from the same principal company / same Manufacturer /same OEM.

PACKAGE NO.2 (A) (1. Video Laryngoscope)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Package 2	Video Laryngoscope Fiber optic Bronchoscope Adult of package2	Our principal company manufacturer donot manufacturer any rigid scopes hence we are unable to participate for item no.1 in package No.2	Acceptable See Amendment
	Kindly add one line of certification for quality standard i.e.	Kindly add one line of certification for quality standard i.e. product should be European CE and USFDA approved.	Product should be European CE and US FDA approved.
			To be added:- Compatible Halogen light source/LED light sources • Should be compact and light weight around 5-6kg or less for easy transportability. • Should have 150 watts halogen lamp .Additional 4 no's bulbs to be included

PACKAGE NO.2 (A) (2. Rigid Laryngoscope)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
		Product should be European CE and USFDA approved.	No change

PACKAGE NO.2 (B) (1 Fibre Optic Bronchoscope – Adult)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Point No.3.2	Field of view 120 degrees or more .	This is company specific therefore kindly revise it to field of view 110 deg or more.	Field of view 110 degrees or more .
Point No.3.5	Bending range UP 180 degree or DOWN 130 degree.	This is company specific therefore kindly revise it to up/down 130 deg or more.	Bending range UP/DOWN 130 degree or more.
Point No.3.15	Video Processing system (Optional)	This is mandatory equipment to visualize the image on monitor hence kindly do not consider it as optional. You have asked for single chip camera which is outdated technology and no other primary institute like AIIMS is using this technology therefore	No change

		request you to kindly revise it to 3 chip camera with monitor 19 inch medical grade, if not possible then kindly revise following point in existing specs.)	
3.	¼ inches CCD (Closed circuit display with 10 bit digital signal processing.	This is company specific Olympic model name is OTV-SC therefore kindly revise it to ½ inch or single chip camera. Also kindly add the monitor as it is missing from the specification. Monitor 19 inch medical grade from same manufacturer is required.	¼ inches CCD (Closed circuit display) to ½ inch CCD with 10 bit digital signal processing. Monitor is Optional but from same manufacturer.
Point 3.16	Software and hardware for recording live and Still images (optional)	Just to let you know that the printer is missing form the software specs therefore kindly add laser printer for printing/ reporting.	No change
Point No.4.3	Mobile Plastic Operating cart.	Please specify the trolley whether imported or Indian. Trolley should have minimum three self with drawer, with antistatic wheel casters, front Wheel lockable high grade of electrical insulation and earth protection, 5 socket of ampere inbuilt with trolley to connect all electronic devices.	Imported Three shelf with drawers, antistatic wheel castor, loackable.

PACKAGE – 3 COMPLETE MONITORING SYSTEM FOR ICU (6 BEDDED)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
3.20b	Battery backup of up to 3 hours, when fully charged	Battery back-up of minimum 1 hr	No change Minimum 3 hrs of Battery Backup
3.1	Minimum 15 inches multicoloured TFT display screen.	Since in tender specification you have asked many parameter so ideally screen size should be minimum 19" and all major vendors such as GE, Philips, Drager, Mindray, Spacelab etc in monitoring business has this display.	No change
3.21 B	To provide suitable facility for sending and receiving DICOM Compatible Radiological Images like Ultrasound , X-Ray etc to and from the monitoring Network to and from Hospital Information System, Radiology Information System etc for integration of various information's (OPTIONAL)	Request to delete this point. Reason Precursor to this requirement, HIS needs to be available to utilize this system to the fullest.	It is optional.
3.22	Include Laser Printer and dual channel strip chart recorder.	With central station, laser printer will be provided. Dual channel recorder will not be required. Recommended to include only laser printer	No change
3.7	Facility to monitor and display -	The parameter such as NMT,	No change

	ECG, Respiration, NIBP, SpO2, CO2 with capnography, Temp, Cardiac output(optional), NMT(Optional), BIS/Entropy(optional),EEG (optional)& IBP	EEG, and Cardiac Output etc which has asked as optional should be integrated in monitor as and when required and not as standby and price of these should be frozen at the time of bidding. It may or may not be taken for consideration for price comparison at the time of price bid opening.	Price of optional items should be quoted when asked for.
7.1	Should be US FDA , CE,UL or BIS approved product	The monitoring system is part of life saving devices so it should be US FDA and European CE marked product as by these standard are only given to quality product.	US FDA & European CE marked product.

PACKAGE NO. 4 (BLOOD GAS ANALYSER)

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Pt no- 2	Essential Measured parameters; pH, pCO2, pO2, SaO2, tHb, Barometric Pressure, Na+, K+, Ca++, Cl-, Bl urea and Sr Creatanine & Blood sugar. All these parameters should be measured simultaneously	**Kindly delete Bl urea and sr createnine and blood sugar**, These are biochemistry tests and hold no significance in blood gas reporting and also results in extra cost as the extra amount reagent is used whether you want to report these parameters or not.	No Change

PACKAGE NO. 5 PATIENT WARMING SYSTEM

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No. 3	Should be based on semiconductor polymer foil for precise warming of entire patient body during & after surgery.	Polymer foil favoring one manufacturer, we recommend **Carbon fibre technology.**	No Change
Point No. 5-	Control unit should be capable of warming minimum four segments at a time.	2 segment at a time.	No Change
Point No. 6	- Color LCD touch screen	We recommend digital display with keypad.	No Change
Point No. 7-	touch screen display to select & display temperature of all four segment at a time	we recommend digital display with keypad for 2 segment.	No Change
Point No. 10-	Arm cum shoulder segment should be divided in two sections capable of being switched ON, OFF independently	We recommend to delete independent switch ON or OFF.	No Change
Point No. 12-	Should also have on screen graphical display of patient body temperature for the entire duration of surgery	we recommend it should be oblige/ digital display.	No Change

PACKAGE NO. 7 Analyzer, Laboratory, Bio Chemistry, Automated,

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Pt no- 2.2	Should be capable of undertaking 160-200 tests/hr involving fixed time, end point and kinetic chemistry	Should be capable of undertaking 300-400 tests/hr involving fixed time, end point and kinetic chemistry	No Change
Point No.2.2-	Should be capable of undertaking 160-200 tests/hr involving fixed time, end point and kinetic chemistry	Should be capable of undertaking 150-200 tests/hr involving fixed time, end point and kinetic chemistry.	No Change
Pt no-3.1	Flow cell volume: approx. 50µl	Kindly delete this point (The flow cell is used in semi-automatic biochemistry analyser, and reaction plate /cuvettes are used in fully automatic biochemistry analysers)	Accepted **(The Point stands deleted)**
Pt no- 3.2	Aspiration volume: 5-1000µl in 0-0.5µl increments	Aspiration volume: 10-300µl in 1ul increment	No Change
Pt.no-3.3	Sample Tray/ reaction plate: >50 positions for samples/ standards/controls.	Sample Tray and reaction plate: 50 positions for samples/ standards/controls and 50 position for cuvettes in reaction tray	No Change
Pt No 3.3	Sample cups: 0.5-1ml	Sample cups/ tube: Should use variable size primary sample tubes of size 5 ml/7 ml/10 ml and cups of upto 2 ml	No Change

		Additional features: 1. Suitable de-ionsing water plant should be provided with the equipment 2. The equipment should preferably have permanent Hard Glass cuvettes to avoid recurring cost of disposable cuvettes.	
Point No.3.3-	Analytical Requirements; Sample Tray/reaction Plate>50 positions for sample/standard/controls	Sample Tray/reaction plate >20 positions for sample/ standard/ controls	Sample Tray/reaction plate >20 positions for sample/ standard/ controls
Point No.3.5-	Inbuilt printer thermal type with 40 characters/line or better	Inbuilt thermal type with 40 characters/line or external printer.	No Change

PACKAGE NO. 9(ITEM2) MICRO PLATE ELISA READER

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Pt no- 2.2		Kindly add a washer also as it very important to have a washer along with the reader to perform the ELISA tests.	No Change

PACKAGE 20: PORTABLE COLOR DOPPLER ECHO CARDIOGRAPHY SYSTEM:

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
	Should have maximum colour Doppler Frame rate of 250 Hz should have an on-board workstation for storage and review of all exams i.e.2D Doppler, Loops etc.	In frame rate you have asked a frame rate of 250 which for a Cardiac Echo is very less so it should be changed to minimum 500-600.	≥ 250 Hz
	Should have a large hard Disk capacity to store patient data into the hard drive.	size and same should not be less than 50-60GB.	> 1 TB
	Should be able to transfer images and clips to CD and DVD Media.	You have asked for transfer the image to CD/DVD media as now all equipment has inbuilt CD/DVD writer so we request you to kindly add that these facilities should be integrated in the system.	No Change
	1. Adult Echo Transducer: Transducer technology for audit probes should be clearly mentioned in technical bid. 2. Paediatric Echo Transducer 3. Tran esophageal probe	Three probes i.e. Adult Cardiac, Paed. Cardiac and Trans-esophageal (TEE) but have not specified the frequency of these. Ideally Adult Cardiac probe has frequency of 1-5 MHz, Paed. 3-8 MHz and TEE 2-7MHz	1. Adult Echo Transducer: Transducer technology for audit probes should be clearly mentioned in technical bid. 1-5 Mhz 2. Paediatric Echo Transducer – Paediatric 3-8 Mhz 3. Tran esophageal probe 2-7 Mhz

		Further you have asked a machine with TEE but has not asked following Cardiac options: a. Integrated Stress Echo b. Tissue Doppler c. Tissue and Strain Motion Quantification d. Vascular (Linear) Probe with frequency range from minimum5-12MHz. These option are must for a Cardiac Examination so we request you to kind add these. It is important to mention here that TEE which you have asked in tender specification may not all required in the hospital as its major use during Cardiac Surgery which will not done in Aurovedic Hospital. However to buy or not to buy is a decision lies with the user.	No change

PACKAGE NO.22 DIGITAL PANORAMIC WITH CEPHALOMETRIC X-RAY

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
		1. Kindly add that there should be 2 inter changeable flat panel sensors one for panorama and one for cephalostate. Sensors should be light weight which can be interchanged by 1 technician. Mention weight of sensor. 2. High frequency generator of minimum 150 KHz for fast dose decay to minimise dose to patient & operator 3. It should be both USA FDA and European CE approved. 4. It should have AERB type approval. 5. Telescopic column with motorized height adjustment 6. Both Standing, Wheel Chair position both should be possible. Please show with photos. 7. Acquisition and storage on USB device without direct connection to PC. Examination: - Panoramic - Constant magnification (panoramic exam) - Dedicated program for children examination - Program for TMJ examination with open and closed mouth - Program for sinus studies	No Change

		- Program for panoramic with improved orthogonality for reduced overlapping of adjacent teeth - Program for implantology - Program for bitewing - Segmented dentition programs (half –panoramic, frontal dentition) - Panoramic scanning time: less than 14s Implant package-Linear tomography for implantology	

PACKAGE NO.27 ITEM NO.1- AUTOMATED BACTERIAL CULTURE SYSTEM

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
	Point No.5- capacity 300 bottles (minimum), or as per user requirement	Please make it 380-400 bottle capacity for the future aspect	The Equipment Stands **DELETED.**

PACKAGE NO 27. ITEM NO.3- FULLY AUTOMATED BACTERIAL IDENTIFICATION AND SENSITIVITY SYSTEM

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.1-	Automated instrument for wide range of gram positive, Gram negative bacteria and yeasts, neisseria, Haemophilus and anaerobes	This point should be removed as this makes it specific for a particular company	The Equipment Stands **DELETED**
Point No.5	- Should have sample capacity of at least 25-30 samples at one go (or as per user requirement)	For the future aspect you should make it 80-100 samples at one go..	
Point No.8-	Special panel for ESBL, MRSA and MBI etc.	This point should be removed as this makes it specific for a particular company.	

PACKAGE NO. 37 SINGLE PUNCTURE LAPARASCOPE

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
3.1: ITEM No. 5, 6, 7 & 8	5. Bipolar Grasping forceps rotating with connector pin for bipolar coagulation, size 5mm length 40-45 cm , atraumatic serrations , fenestrated jaws with long flat non retracting jaws with handle with necessary HF bipolar cord, 300mm length with 2 4mm	You have mentioned length 40-45cm, while in gynaecology Surgery length should be 30-36 cm hence request you to kindly amend it to 33-36 cm. Also please note that the item, hand instruments is very important instrument to	For Point No. 5 & 6 Length 36cm to 40 cm. For Point No. 7 Length 36cm to 45 cm.

	banana plug.(optional) 6. Unipolar Grasping Forcepswith connector pin for unipolar coagulation, 5mm, length40-45 mm, atraumatic double action jaws consisting of insulated handle without ratchet with monopolar high frequency cord 300cm or more length with 4mm plug for HF unit(optional) 7. Suction & irrigation cannula 5mm. 30-36cms. two way stop for single hand control and with handle tubings.(optional) 8. Bipolar coagulating and suction tube 5mm with connector pin with pistol grip handle with trumpet valve and silicon tubings with necessary HF cord to fit into above 6mm working channel(optional)	perform the Gynaecology Surgery so item no.5,6,7 & 8 cannot be optional. Also request you to kindly change the length of other hand instrument from 30-36cm to 33-36cm otherwise surgeon will not be able to perform surgeries with short length of hand instruments.	
Point 3.20 (e)	Provision for preheating gas to body temperature.	As you asked flow rate 30L/M and preheating gas to body temperature is must with high flow insufflators therefore it can not be optional. Apart of existing features, kindly add following important point also. (i) Should be able to select either central supply (4.5kg/cm2) input pressure	Accepted

		from central supply as well as direct connection to high pressure CO2 cylinder and shoud indicate te right inlet pressure of CO2 gas supply by bar graph on front panel of machine. (ii) Unit should produce immediately acoustic alarm in case of sudden blockage in the gas outlet tube or wrongly placed Veress needle. (iii) Should have internal heater to initially heat the CO2 gas to a level to make it from liquid to gas. (iv) Shoud have external integrated heater to deliver CO2 gas at body temperature. (v) Should have data communication port.	
Point 3.20 (g)		Kindly specify the capacity of CO2 cylinder	Standard C02 Cylinder
Point 3.2(B)-1	300 watts bulb minimum 1000 hrs. with at least one spare bulb of 15v 300 watts	Generally Xenon bulb life is not more than 500 Hrs with one spare lamp.	Min life 500 Hrs
Point 3.3	Full High Definition (HD) Endoscopic Camera with TV medical grade monitor and printer:	Apart of existing features, kindly add following important point also. (i) Three Chip camera head should produce	Agreed

		at head itself Pure Digital signal with high definition video 1920* 1080*P) with aspect ratio of CCD chip and video format of 16:9 or 16:10 (ii) Should have integrated optical zoom lens 15-32mm + 10% zoom range, to increase and decrease the size of image which should remain in focusing zone, without readjusting the focus and fully soakable. (iii) Should have port of direct recording of still & video sequences On external hard drive of 1TB and 2 Nos.of this external hard drive to be supplied along with camera. (iv) All camera functions to be controlled from camera head buttons and through key board at camera control unit to make it controllable from both sterile and non sterile zone. According to :IEC 60601-2-18, UL2601.1 CSA22.2 No.601.1-M90: - Type of protection against electrical shocks; Protection class I	

		- Degree of protection against electrical shocks: Applied part of type CF defibrillator proof – According to Medical Device Directive (MDD) the camera should belong to class 1 and bear the CE mark in accordance with MDD 93/42/EEC - Must: should have port to connect to communication data BUS.	
Point 3.3C		Kindly specify the quantity of HD Medical Grade Monitor and add following point for screen safety (i)Front sealed, anti –glare overlay guarantees the highest level of defence against liquid ingress.	One per Set Rest No change
Point 3.3:C-19	Camera CCU & Monitor should be compatible with each other and preferable should be of same make:	Please note that all electronic/imaging devices should be from same manufacturer for system compatibility therefore request you to kindly change it to Camera Monitor, Light Source, HD	No change

		recording system, CO2 insufflator, Telescope should be from same manufacturer. Please note that the trolley is missing from the specification therefore request you to kindly add the same. Also specify the trolley whether imported of Indian. Trolley should have minimum three self with drawer, with antistatic wheel casters, front wheel lockable high grade of electrical insulation and earth protection, 5 socket of 5 ampere inbuilt with trolley to connect all electronic devices.	Indian Trolley

PACKAGE NO. 37(2 Operative Gynaecological Laparoscope Set)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Point 3.1 (A)3	Fowward oblique telescope – 30 degree and 70 degree – enlarged view, diameter 5mm with length 28-30 cms and 10mm with length of 30-36mm:	Generally 70 degree telescope with 10mm & 5mm diameter do not use any surgeon in laparoscopy surgery and not available in the market also therefore request you to kindly change it to 45 degree telescope diameter 10mm with 30-33cm & 5mm with 28-30cm.	Agreed
Point-3.2 & 3.3		Specification is mentioned in point a, b & c is not related to high frequency cable therefore request you to kinly delete all three points from point 3.2 & 3.3	Agreed
Point -3.4	Full High Definition (HD) Endoscopic camera with TV medical grade monitor and printer	Apart of existing features, kindly add following important point also (i) Three Chip Camera head should produce at head itself Pure Digital signal with high definition video	Agreed

		(1920*1080P) with aspect ratio of CCD chip and video format of 16:9 or 16:10 (ii) Should have integrated optical zoom lens 15-32mm + 10%zoom range, to increase and decrease the size of image which should remain in focusing zone, without readjusting the focus and fully soakable. (iii) Should have port for direct recording of still & video sequences On external hard drive of 1TB and 2 Nos. of this external hard drive to be supplied along with camera. (iv) All camera functions to be controlled from camera head buttons and through key board at Camera control unit to make it controllable from both sterile and non sterile zone. The camera should also comply with the following standards: According to :IEC 60601-2-18, UL2601.1 CSA22.2 NO.601.1-M90:	

		- Type of protection against electrical shocks: Protection class I - Degree of protection against electrical shocks: Applied part of type CF defibrillator proof According to Medical Device Directive (MDD) the camera should belong to Class I and bear the CE mark in accordance with MDD 93/42/EEC Must: Should have part to connect to communication data BUS.	
Point 3.4 (C)		Kindly specify the quantity of HD Medical Grade monitor and add following point for screen safety. (i) Front sealed, anti-glare overlay guarantees the highest level of defence agasint liquid ingress.	One Per set Rest No change
Point 3.4:C-19	Camera, CCU & Monitor should be compatible with each other and preferable should be of same make	Please note that all electronic/imaging devices should be from same	Agreed

		manufacturer for system compatibility therefore request you to kindly change it to Camera, Monitor, Light Source, HD recording system, CO2 Insufflator, Telescope should be from same manufacturer.	
Point 3.5(B) Point 3.20 (e)	Apart of existing features, kindly add following important pont also for patient safety	(i) Should be able to select either central supply (4.5kg/cm2) input pressure from central supply as well as direct connection to high pressure CO2 cylinder and should indicate the right inlet pressure of CO2 gas supply by bar graphy on front panel of machine (ii) Unit should produce immediately acoustic alarm in case of sudden blockage in the gas outlet tube or wrongly placed Veress needle. (iii) Should have internal heater to initially heat the CO2 gas to a level to make it from liquid to gas. (iv) Should have external integrated heater to deliver CO2 gas at body temperature. (v) Should have data communication port.	Agreed

Point 4.2	-Mobile Video Cart	Kindly specify the trolley whether imported or Indian is required.	Indian

PACKAGE NO.40 ITEM NO.1 Delivery Bed

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Point No.3.1-1	It should have control devise for making height and back adjustments.[manual as well as remote control].	In the present day, delivery beds/ ICU Beds/ examination couches are electrically operated through DC motors which are efficient and are able to provide precise positioning of the patient as required by the doctor instead of a Hydraulic mechanism, which is cumbersome to operate and prone to fluid seepage into the Hydraulic mechanism to cause frequent breakdown in a hydraulic set up. The Electrically operated couches are supplied with UPS in event of power failure. Motors are provided with remote control. No manual control.	No change

PACKAGE NO.40 ITEM NO.2 GYNECOLOGY EXAMINATION COUCH

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.6-	It should have an instrument tray shelf and debris tray which can be pushed under the base	Deletion of point	Optional.

PACKAGE NO.40 ITEM NO.3 PATIENT TRANSFER TROLLEY

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.3.1 – (b)	all the movement of the trolley should be controlled both mechanically and electrically.	Provision for electrical control operable through remote control.	Electrical control should be through remote but it should be optional.

PACKAGE NO.40 ITEM NO.4 EMERGENCY PATIENT TRANSFER TROLLEY

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.3.5-	Frame of the trolley should move with mattress base when foot section/ back section is adjusted.	Easy adjustment of back and foot section to make the emergency trolley into a countered chair position. OR deletion of the point.	No change

PACKAGE 41. SURGICAL OPERATING MICROSCOPE :

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
	Inclinable 180 Deg. Binocular tube with 12.5 X magnification eye pieces	Proprietary in nature kindly amend "Inclinable 60^0 Deg Binocular tube with 12.5 X magnification eye pieces	Inclinable 60-180 Deg. Binocular tube with 12.5 X magnification eye pieces
	+2 Deg. Retro illumination with continuous fading mechanism of co-axial illumination from 2 Deg. to 2+6 Deg.	Kindly amend "+2 Deg. Retro illumination with continuous fading mechanism of co-amial illumination from 2 Deg."	+2 Deg. Retro illumination with continuous fading mechanism of co-axial illumination from 2 Deg.
	Integrated slit illumination system with horizontal and vertical moving facility	Proprietary in nature kindly remove this point	Optional
	High quality programmable floor stand with magnetic breaks and clutches for easy positioning through handles and suspension arm.	Proprietary in nature kindly amend "Atleast 15" TFT Touch screen with facility for direct sterile interaction"	High quality programmable floor stand with magnetic breaks and clutches for easy positioning through handles and suspension arm. Atleast 15" TFT Touch screen with facility for direct sterile interaction"
	Stand should have programming facility for setting the speed of XY, Zoom and focus with storage facility of initial setting for multiple users.	Kinly amend "High quality programmable floor stand for easy positioning through handles and suspension arm" magnetic breaks and clutches no need for surgical procedure in microscope..	

	3CCD Digital camera attachment and digital video recording facility with imported high quality video trolley with isolating transformer.	Proprietary in nature kindly remove this point	CCD Digital camera attachment and digital video recording facility with imported high quality video trolley with isolating transformer. (As manufactured or provide by the parent company manufacturing the microscope .) No local attachments permitted.
		Kindly amend "CCD Digital camera attachment and digital video recording facility	

PACKAGE 42
AUTO REFRACTOKERATOMETER

Point No.	Existing Tender Specification	**Amendment requested by M/s. DEVINE MEDIHEALTH PVT. LTD**	Amended by AIIA / HSCC
	It should have adjustable tilt Colour LCD Monitor • Active accommodation relaxation	Kindly amend "it should have adjustable Colour LCD Monitor active accommodation relaxation."	It should have adjustable tilt Colour LCD Monitor.
REFRACTION MEASUREMENT			
	Sph - 25.0D → + 25.0 0.01 / 0.12 / 0.25 D. steps	Kindly amend "Sph-20 to +20D, Step 0.12 D or 0.25 D	Sph-20 to +20D, Step 0.12 D or 0.25 D
	Cyl 0 to + / - -10D IN 0.1 l 0.2 / 0.5 D. steps	Kindly amend "-0 to +10D, Step 0.12 D 0.25 D	0 to ±10D, Step 0.12 D 0.25 D
	1 to 10 automatic measurements possible	Kindly amend "automatic measurements possible."	automatic measurements possible.
	Outputs RS232C and Video NTSC	Kindly amend "outputs RS232C'	Outputs RS232C and Video NTSC

SLIT LAMP BIOMICROSCOPE

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
2	Angle of optical axis: The offset of the left and right optical axes should be within 40 minutes in up and down direction separately and within 1˚ in outward. However a Binocular Biomicroscope of which optical axes of left and right oculars are not parallel is excluded.	Kindly remove this point.	Remove
6	Inter-pupillay distance: 50mm to 75mm	inter-pupillary distance: 50mm to 75mm"	Inter- pupillay distance: 50mm to 75mm
7	Magnification and field of view : Eye Piece Objective Magnification field 10x 1 x 18mm,15mm, 11 mm 16 x 1.6 x 9mm, 4mm, 2mm	:Magnification and field of view: Eye piece objective Magnification field 018,015,09.3mm (09.3mm. when 16x eyepieces are in use)."	Same
B.SLIT ILLUMINATION SECTION			
	Slit image width adjustment	"0-10mm continuously variable (at 10mm, slit becomes a circle)"	0-10mm continuously variable (at 10mm, slit becomes a circle)
	Slit image length adjustment : 0-10mm continuous	"1-10mm continuously variable".	Slit image length adjustment : 0-10mm continuous

AB SCAN

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
	A- Scan mode : 10 MHz	A Scan mode: 10 or 12 MHz	10-12 MHZ
	B-Scan mode: 8-10 MHz	B – Scan mode: 12 MHz	10-12 MHZ
	Laser & video CD recording facility	Video recording facility with Internal memory or USB drive	Very good quality Video recording facility with Internal memory or USB drive

4. VISUAL FIELD ANALYSER

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
	C.D. drive, internal hard disk drive with Magneto Optical Disk (MOD) drive.	C.D drive, internal hard drive	C.D drive, internal hard drive
	Maximum temporal range 90Deg.Suitable for central 30 as well as full field testing	Maximum temporal range 8-90 Deg. Suitable for central 30 as well as full field testing	Maximum temporal range 8- 90 Deg. Suitable for central 30 as well as full field testing
	Central field test patterns 30-2,24-2,10-2,Macula	Central field test	Central field test patterns 30-2,24-2,10-2,Macula
	Peripheral field test pattern 60-4,Nasal Step	Peripheral field test pattern	Peripheral field test pattern 60-4,Nasal Step
	Threshold test strategies full threshold, Fast Pac, SITA or equivalent	Threshold test strategies or equivalent	Threshold test strategies full threshold, Fast Pac, SITA or equivalent
	Screening field test P-60, FF-80,FF-120,FF-240,Nasal	Screening Field Test	Screening field test P-60, FF-80,FF-120,FF-240,Nasal Step

	Step for periphery		for periphery
	Head tracking, Vertex Monitoring, Touch screen on CRT, Keyboard	Head tracking, vertex, Monitoring through Keyboard & mouse on PC	Head tracking, Vertex Monitoring, Touch screen on CRT, Keyboard
	Motorized chinrest, Original Manufacturer Motorized table with Laser Jet Printer	Monitoring chinrest, Motorized table with Laser Jet or Inkjet Printer	Motorized chinrest, Original Manufacturer Motorized table with Laser Jet Printer

4. NON CONTACT TONOMETER

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point 5	Ability to compensate IOP depending upon corneal pachymeter	Ability to compensate IOP with Corneal Compensated IOP(IOPcc)	Ability to compensate IOP depending upon corneal thickness or pachymeter.

4. REFRACTION UNIT

1. (a) SLIT LAMP BIO MICROSCOPE

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
2.	Angle of optical axis: The offset of the left and right optical axes should be within 40 minutes in up and down direction separately and within 1˚ in outward.	Kindly remove the Point	Remove
6	Inter-pupillay distance : 50mm to 75mm	Inter- Pupillary distance: 50 mm to 75 mm	Inter- Pupillary distance: 50 mm to 75 mm
7	Magnification and field of view: Eye Piece Objective Magnification field 10x1x18mm,15mm,11mm 16x1.6x9mm,4mm,2mm	Magnification and field of view: Eye Piece Objective Magnification field 018, 015, 09.3mm(9.3mm when 16x eyepiece are in use)	Same
B. SLIT ILLUMINATION SECTION			
1	Slit image width adjustment	0.10 mm continuously variable (at 10mm, slit becomes a circle)	Slit image width adjustment 0.10 mm continuously variable (at 10mm, slit becomes a circle)
2	Slit image length adjustment : 0-10mm continuous	1-10mm continuously variable.	Slit image length adjustment : 0-10mm continuous variable.

PACKAGE NO. 45(Item no-2) Semi Automated ESR Analyzer

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Pt no- 2.1	Semi-Automated ESR Analyzer for quantitative ESR by using of capillary bloodwith kinetic photometry principle should accept any size of sample tubes and works by using all kind of anticoagulant (EDTA)	Semi-Automated ESR Analyzer for quantitative ESR by use of EDTA tube /capillary with kinetic photometry principle should accept any size of sample tubes and works by using all kind of anticoagulant (EDTA)	No Change
Pt no-3.3	Loading of sample: Semi-Automated sample aspiration one by one.	Loading of sample: Semi-Automated / Automated sample loading . (ESR machines can also detect directly from EDTA sample vials)	No Change

PACKAGE NO. 45(Item no-3) Semi Automatic Coagulometer

Point No.	Existing Tender Specification	Amendment requested by M/s. TRANSASIA BIOMEDICAL	Amended by AIIA / HSCC
Pt no- 3.1	16 incubation positions for samples (4 cells x 4 columns).	5 incubation positions for samples / extenrnal incubator (semi automated 2-channel analyser, can process only 2 samples at a time)	No Change
Pt no-3.2	2 measurement channels	4 measurement channels	No Change

Pt no- 3.3	2-4 positions for reagents (one with magnetic stirrer) and 2 pipette wells	4-8 positions for reagents (magnetic stirrer needed only in Stago STA4. Instruments based on Optical light such a leading brand Sysmex CA 50 dont use magnetic stirrer)	4-8 positions for reagents

PACKAGE NO. 49(ITEM NO-1) CELL COUNTER

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Pt no- 2.1	Automatic blood cell counter that measures 18 parameters including 5-part differential of WBC is required complete with printer.	**Automatic blood cell counter that measures 31 parameters including 5-part differential of WBC is required complete with printer**. (18 parameter analyser can provide a 3 part differential of WBC)	Automatic blood cell counter that measures 31 parameters including 5-part differential of WBC is required complete with printer.
Pt no- 3.2	Parameters to be measured are - WBC, LYM%, LYM, MON%, MON, GRA%,GRA, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW.	Parameters to be measured are -WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT RDW-CV, RDW-SD, MPV, PDW, P-LCR, PCT, NEUT %, LYMPH %, MONO %, EO %, BASO %, NEUT #, LYMPH #, MONO #, EO #, BASO #, RET %, RET #, LFR, MFR, HFR, IRF, PLT-o	Parameters to be measured are -WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT RDW-CV, RDW-SD, MPV, PDW, P-LCR, PCT, NEUT %, LYMPH %, MONO %, EO %, BASO %, NEUT #, LYMPH #, MONO #, EO #, BASO #, RET %, RET #, LFR, MFR, HFR, IRF, PLT-o
Pt. no-3.4	Low Sample Volume of 10µL	Sample Volume of 100µL	Range 10 – 100 µL

Pt no- 3.5	Throughput > 60 samples per second	Throughput > 80 samples **per Hour** in all discrete analysis modes (specification need amendment as throughput of hematology analysers available worldwide varies between 50 -150 sample/hr)	No Change

PACKAGE 50: BED SIDE MONITOR

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
3.4	Trend 24 Hours	Trend 48-72 Hour	No change
7.1	Should be US FDA , CE,UL or BIS approved product	US- FDA or European CE	US- FDA or European CE approved.

Package – 52 (1, Neonatal Open Care System)

Point No.	**Existing Tender Specification**	**Amendment requested by Bidder**	**Amended by AIIA / HSCC**
1.1	Quartz heater based radiant warmer with integral bed used for clinical management of neonatal hypothermia. The equipment can be operated in servo or manual modes. Facility for halogen based phototherapy	Quartz heater or CALROD based radiant warmer with integral bed used for clinical management of neonatal hypothermia. The equipment can be operated in servo or manual modes. **Explanation :** Including CALROD heater as it is superior technology	No Change

		with highly efficient heating and long life. And, deletion of Halogen based phototherapy as a standalone LED Phototherapy will be more efficient in treating jaundice.	
2.1	Units are provided to use the equipment in the labor ward, NICU or general nursery. The equipment electronic control panel should have key lock facility, celcius to Farhenheit change over facility and battery back up to 20 minutes.	Units are provided to use the equipment in the labor ward, NICU or general nursery. Kindly delete this pint & include Battery back up in Warmer	Units are provided to use the equipment in the labor ward, NICU or general nursery and battery back up to 20 minutes. Suitable UPS should be provided along with the machine for uninterrupted operation
Tender Point No 2.1	Units are provided to use the equipment in the labor ward, NICU or general nursery. The equipment electronic control panel should have key lock facility, celcius to Farhenheit change over facility and battery back up to 20 minutes	battery backup up to 20 minutes . Suitable UPS should be provided along with the machine for uninterrupted operation.	nits are provided to use the equipment in the labor ward, NICU or general nursery and battery back up to 20 minutes. Suitable UPS should be provided along with the machine for uninterrupted operation.
3.1 (1)	Working temperature: 26.4 to 40 deg C	Working temperature: 30 to 38 deg C **Reason :** Correcting to practical clinical temperatures, 26.4 and 40 degrees will lead to hypothermia and hyperthermia respectively.	Range 30 - 42deg C

3.1 (9)	Heating element: Quartz encapsulated heater with parabolic reflector	Heating element: Quartz encapsulated heater / CALROD heater with parabolic Reflector Reason : Including CALROD heater as it is better technology	No Change
3.1 (12)	Table surface with mattress with infant head/ shoulder support.	Deletion of the point **Reason :** It is company specific.	No Change
3.1 (12) 11th Line on page 289	Maximum mattress tilt: +80 (continuously variable) both side .Maximum mattress swivel on both sides of vertical column +45deg C	Maximum Mattress Tilt 12 Degrees (Continuously variable) on both sides. **Reason :** Correcting the point for practical clinical usage. **To be added**: The heater should not get switched off even when swilled to extreme sides during examination to ensure that the baby still gets heat.	Maximum Mattress Tilt (12-15) Degrees (Continuously variable) on both sides. **To be added**: The heater should not get switched off even when swilled to extreme sides during examination to ensure that the baby still gets heat.
Point No 14	Observation lamp: Halogen based lamp focusable anywhere on the bed	Kindly omit "focusable anywhere on the bed" For examination, the light is basically required on the patient bed only.	No Change

Point No 17-	Phototherapy / Halotherapy(optional): Should be placed on the both sides of overhead heaters bulbs on each side angled for effective treatment	Kindly ask for integrated phototherapy.	Integrated phototherapy
	Serial no.1 & 4- for neonatal open care system & radiant warmer with baby	Should be FDA and CE approved product so that institute can procure best quality product.	Serial no.1 & 4- for neonatal open care system & radiant warmer with baby. Should be FDA and CE approved .
Point No 7.1 -	Should be US FDA , CE,UL or BIS approved product	"Product should be US FDA and European CE approved."	Product should be US FDA or European CE approved."
7.1	Should be US FDA , CE,UL or BIS approved product	Should be US FDA and CE 93/42 certified product.	Product should be US FDA or European CE approved.

PACKAGE 52 (ITEM 4: RADIANT WARMER WITH BABY BASSINET)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Point No 3.1 (10)	It should have inbuilt or provided along rechargeable battery to run equipment in case of power failure for at least ½ hour.	The equipment should be supplied with a suitable rating UPS .	The equipment should be supplied with a suitable rating UPS.
Point No 7.1	Should be US FDA , CE,UL or BIS approved product	"Product should be US FDA and European CE approved."	Product should be US FDA or European CE approved.". The unit should have an integrated APGAR timer which is essential in Labor and delivery rooms for initial analysis as soon as the baby is born
		Point To be added • The unit should have an integrated APGAR timer which is essential in Labor and delivery rooms for initial analysis as soon as the baby is born.	**Point To be added** • The unit should have an integrated APGAR timer which is essential in Labor and delivery rooms for initial analysis as soon as the baby is born

PACKAGE 52 (ITEM5 : TRANSPORT INCUBATOR)

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
Point No 7 (7.1)	Should be US FDA, CE, UL or BIS approved product	"Product should be US FDA and European CE approved."	Product should be US FDA or European CE approved.".
		Points to be added: • Ventilator – basic ventilator with at least CPAP and IMV modes with controls for CPAP/PEEP. PIP, rate. Ti and FiO2 • Must have airworthiness certificate for air transport and must conform to MIL STD461C standard for transport. • Should have an integrated compressor to have uninterrupted air supply during transport. • The incubator should be mounted on a collapsible trolley so that the same can be easily shifted in any ambulance requiring minimum manpower. • Should be a single vendor solution to have seamless service backup. Also all the certifications should be also valid for an assembled solution. **[**	Points to be added: The incubator should be mounted on a collapsible trolley so that the same can be easily shifted in any ambulance requiring minimum manpower.

PACKAGE NO.53 Serial No.03- for Pulse Oximeter

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.21-	Suitable for all types of Patient range: Adult, Pediatric, infant, and/or neonate.	We suggest you to amend it with set technology for minimum motion antifacts.	Suitable for all types of Patient range: Adult, Pediatric, infant, and/or neonate with minimum motion artifact.
Point No.3.2	-Parameters and waveform displayed-SpO2, pulse rate, system status, plethysmogram, menus for user settings	We suggest you to amend pulse rate should have perfusion index	No Change
Point No.3.3	SPO2 range- 30-100% minimal graduation 1%	We suggest you to amend SPO2 range from 0 to 100%	No Change
Point No.3.5	Pulse rate range should be 30-240 bpm	We suggest you to amend pulse rate should be between 25-240 BPM.	No Change

PACKAGE NO. 59 ULTRASOUND MACHINE

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
	Point No.2 The system should have minimum of 1500 or more digital processing channels and 256 or more shades of grey	He system should have minimum 20000 or more digital processing channels and 256 or more shades of grey	15000 or more
	Point No.4 Maximum frame rate should be greater than 350 fps for B and colour mode	Maximum frame rate should be greater than 1000 fps for B-Mode and 200 fps for colour mode	Frame rate 350 Fps or more
	Point No.5 Frequency range for all transducer should be 2-14 Mhz.	Frequency range for all transducer should be 2-13 Mhz, should be available.	2-14 Mhz (±1)
	Point No.7 The system should an integrated high resolution TFT/LCD of 15" or more with facility of tilt and swivel along with convenient grip.	The system should an integrated high resolution TFT/LCD of 17" or more with facility of tilt and swivel along with convenient grip.	15" or more
	Point No..8 The system should have minimum three active universal ports and two parking ports. Active ports can be directly selected from the control panel.	The system should have minimum three active universal ports. Active ports can be directly selected from the control panel.	No Change

	Point No.9 The system should have scanning depth in the range of 2-24cm.	The system should have scanning depth in the range of 2-30cm.	The system should have scanning depth in the range of 2-30cm.
	Point No.10 The system should have a very high capacity of hard disk drive min 80 GB for storages of images	The system should have a very high capacity of hard disk drive min 150 GB for storage of images	The system should have a very high capacity of hard disk drive min 150 GB for storage of images
	Point No.13 The system should have minimum 6 steps transmitting focusing and adjustable gain should be available up to 100 db for B mode and M mode.	The system should have minimum 4 steps transmitting focusing and adjustable gain should be available up to 100 db for B mode and M mode.	The system should have minimum 4 steps or more transmitting focusing and adjustable gain should be available up to 100 db for B mode and M mode.
	Point No.24 a) Convex probe with frequency range of 3-6 Mhz	Convex probe with frequency range of 2-5 Mhz or 3-6 Mhz (+-1)	Convex probe with frequency range of 3-6 Mhz (±1)
	Point No.24 c) Linear probe with frequency range of 6-11 Mhz	Linear probe with frequency range of 6-11(+-1) Mhz or 5-10 Mhz	Linear probe with frequency range of 6-11(±1) Mhz
	Point No.24 b) TV/TR probe with frequency range og 5-7.5MHz and maximum field of view 140 degree	TV/TR probe with frequency range of 4-9 MHz and maximum field of view 125 degree	5-7.5 Mhz (±1 MHZ) 125° or more
	Point No.25 a) Linear probe 8-14 Mhs	Linear probe 8-13 Mhz	Linear probe 8-14 Mhz (±1MHz)
	Point No.25 c) Convex volume (4d) probe	Convex volume (4d) probe of frequency 2-7 Mhz.	Convex probe (4D) probe of frequency 2-7MHz (±1MHz)

		To be added US FDA approved and European CE Marked.	US FDA and European CE marked product.

PACKAGE. 59 PORTABLE ULTRASOUND WITH COLOR DOPPLER

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point 1	The unit should be compact, lightweight and portable. Weight should not exceed 10kg excluding cart and accessories.	Portable Machine should not exceed more than 5-6 Kg.	No Change
Point 4	It should have 1024 or more digital channels for image formation and acquisition.	You have asked for no. Of channel as 1024 which is very less an same should not be less than 18,000-20,000	Mention the number of Digital Channel available.
Point 5	Transducers: (2) Linear 13 - 6 MHz.	Ideally companies has 5-12 MHz	Linear 13 - 6 MHz. (±1MHz)
Point 5(3)	Endocavitory 8-5 Mhz for transrectal ultrasonogaphy and end firing biopsy, one each.	Endovaginal 9-4 Mhz for transvaginal ultrasonography and side firing biopsy, one each.	Endocavitory 8-5 Mhz (±1MHz) for transrectal ultrasonogaphy and end firing biopsy, one each.
Point -9	Advanced features such as tissue harmonic imaging with contrast media and compound imaging advance dynamic flow / HD flow should be available.	Advanced features such as tissue harmonic imaging with tissue contrast enhancement and compound imaging advance dynamic flow/ HD flow should be available.	No Change
Point-18	Onboard storage of at least 1000 images, storage in JPEG and AVI	Onboard storage of at least 100000 images . Storage in	1000 or more

	format should be possible	JPEG and AVI format should be possible	
Point 21	Facility for storage on CDR should be available.	The facility of CDR asked is now a days is integrated part of machine so same should be asked as inbuilt in machine	Facility for storage through inbuilt CDR should be available.
		Further since you have asked a facility of three probe but has not asked for transducer connector so request you to kindly facility of 2 more connector in the machine	No change
		The quoted model should be US FDA approved and European CE Marked.	US FDA and European CE marked product.
Point-27	The unit offered must be sturdy and should be able to withstand accidental hits and falls during transportation.	The unit offered must be sturdy	No Change

PACKAGE NO. 60 (ITEM 1 DIGITAL MOBILE X RAY)

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
2. Generator	vi. Shortest Exposure time: Should be 1ms or less	Shortest exposure time should be less than 4ms or less.	Should be 4ms or less
4.Flat Panel Detector System	I. Minimum size of detector must be 14" x 17"	flat Panel Detector of size at least 16” x 16”size.	No Change

	IV. Pixel size / pitch should be 160µm or less	Pixels size should less than 200µm	No Change
Point No.4- Flat Panel detector		Request you to kindly specify the detector scintilator whether it should be CSI or GOS.. Also as you are looking for 63% DQE so this is only possible with CSI and since DQE cannot be measured locally. So request you to kindly specify the detector as CSI only.	detector scintilator should be CSI
	A grid of ratio 10:1 of appropriate size preferably 17'' x 17'' should be supplied	Size of Grid should get changed to 14'' x 17'' (As detector of size 14'' x 17'' has been asked therefore grid of same size will be provided.	14'' x 17''
	Vendor will get approval for the site plan from AERB for installation of the equipment	Should get DELETED NOT REQUIRED FOR MOBILE UNIT.	Site plan approval not requried
14.	**Company/ supplier should have CE/FDA approval certificate and quoted model should have AERB type approval.**	Quoted model should have US FDA & CE certified. And quoted model should have AERB type approval	Quoted model should have US FDA or European CE certified. And quoted model should have AERB type approval
Point No.14	- Company / Supplier should have CE/FDA approval certificate and quoted model should have AERB type approval.	The quoted model must have CE, USFDA and AERB type approval- this will lead to best technical specification for the required product.	The quoted model must have European CE or US FDA and AERB type approval

PACKAGE NO. 60, Item No.2 (500mA Digital Fluro Radiography System).

Point No.	Existing Tender Specification	Amendment requested by Bidder	Amended by AIIA / HSCC
II of 2	Generator It should have digital display of mAS and kV and digital timer	It should have digital display of mAS and kV	No Change
V of 2	It should be capable of delivering upto 300mAS in different steps.	It should be capable of delivering upto 200mAS in different steps.	It should be capable of delivering upto 200mAS in different steps.
III of 3	X-ray Tube It should have dual focus. Large focus :1.3mm and small focus 0.6mm or better.	It should have single/dual focus. Having 0.8 or better in case of single focus. Large focus :1.3mm and small focus 0.6mm or better in case of dual focus.	No Change
		Kindly add that x-ray tube should be USA FDA approved and manufactured in same country where main equipment is manufactured	Not required
	Under table 12 inch image intensifier system with high resolution CCD camera.	PLS Delete 12 inch Image intensifier and instead write: Under table 16 inch Triple field image intensifier systems with high resolution 1 k CCD Camera.	12" or more Rest No change.
IV of 5	The battery should be able to charge from a normal 15A 220-240 V single phase socket in less than 6hrs, preferably.	When fully discharged, the battery should be able to charge from a normal 15A 220-240 V single phase	The battery should be able to charge from a normal 15A 220-240 V single phase socket not more than 12 hrs, preferably.

		socket in less than 12hrs, preferably.	
	Dual Focus X-ray Tube with Large focus 1.0mm and small focus 0.6 mm or smaller.	Kindly change large spot should get changed to 1.2mm We have approval with E7252X having focal spot of 0.6 / 1.2mm.	Dual Focus X-ray Tube with Large focus 1.2mm or less and Mention size of small & large Focal Spot.

PACKAGE NO61. CT SCAN

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.2 & Point No.5	Point No.2 & Point No.5 have both requested a laser colour printer	Clarify if 2 quantities are required.	Only one
Gantry.2:	The Minimum scan time for a 360 Degree rotation should be less than or equal to 0.4 seconds. (400 Milli Seconds)	The Minimum scan time for a 360 Degree rotation should be less than or equal to 0.30 seconds.	The Minimum scan time for a 360 Degree rotation should be less than or equal to 0.30 seconds.
X-ray Section.2:	The System X-ray power should be 70 kw and above	The System X-ray power should be 100 kw and above.	No change
X ray Section Point No. 4	The X ray Tube should be essentially Dual Focus with capacity of at least 7 MHU	The X ray Tube should be essentially Dual Focus with capacity of at **least 6 MHU**	No Change
X ray Section Point No. 6	**The X ray tube should have a cooling rate of not less than 1000 KHU per MIN**	The X ray tube should have a cooling rate of not less than 800 KHU per MIN	No Change

Patient Couch.3	The range of metal free scan should be atleast 150 cm or more	The range of metal free scan should be atleast 200 cms.	No Change
Patient Couch.e	The vertical range should be atleast 55 cms (max height – min height).	The vertical range should be atleast 43 cms (max height – min height).	No Change
Spiral/Helical Section..1	The system offered should have Spiral capability of at least 100 seconds & above.	The system offered should have Spiral Capability of at least 80 seconds & above.	The system offered should have Spiral Capability of at least 80 seconds & above.
Spiral/Helical Section.2	The range of Spiral facility in Axial Direction should be more than 100 cms	The range of Spiral facility in Axial Direction should be more than 150 cms.	The range of Spiral facility in Axial Direction should be more than 150 cms.
Spiral/Helical Section.5	Hi Resolution scan package of 0.63 mm or less should be offered as standard.	This specification has already been mentioned in clause Gantry.5. Request you to clarify the above requirement	Delete from one.
Spiral/Helical Section.6	Multi Slice CT Fluroscopy with at least 3 slice positions & Reconstruction @ 8 Images/ Sec should be available large LCD monitor of 24 inch or more must also be there in gantry room.	Large LCD of 19 inch or more must also be there in gantry room.	19" or more
Image Processing section.5	There should be State of the Art Work stations with at least 6 GB RAM, CD/DVD Archival/ DICOM Viewer Two work stations	3 Client workstations in client serve architecture (Dexus, syngo.via, intellispace portal). With a server of 4 TB thin slice	3 Client workstations in client serve architecture (Dexus, syngo.via, intellispace portal). With a server of 4 TB thin slice

	included in the scope of supply and it should support all the software as listed on the Main Console.	storage in RAID 5 , minimum 64 GB RAM and Win 2012 operating system, 3 workstation hardware to be supplied with latest xeon processor, 8 GB RAM, Windows 7 CD/DVD writer and 2 MP medical grade color monitor. All 3D, MIP, fusion facility should be available on all 3 client workstations	storage in RAID 5 , minimum 64 GB RAM and Win 2012 operating system, 3 workstation hardware to be supplied with latest xeon processor, 8 GB RAM, Windows 7 CD/DVD writer and 2 MP medical grade color monitor. All 3D, MIP, fusion facility should be available on all 3 client workstations
		Dual Energy Applications Oncology Applications Segmentation	Dual Energy Applications Oncology Applications Segmentation

Package -62 (Sl. No. 1 Bone Densitometer)

Amendment requested by M/S WIPRO GE HEALTH CARE	**Existing tender specification**	**Amended by AIIA**
Kindly change the measurement precision to <2.0% in measurement of Osteoporotic person not in phantom. Phantom is used for QA test.	Measurement Precision: % CV: 0.5% or better (in Measurement of Phantom)	Precision: <2.0% CV in osteoporotic person
Kindly change output to p- < 1 MPa Iob < 20 mW/cm2 Ispta < 100 mW/cm2	Ultrasound Output: Isptp: 1.8mW/cm2	Delete this specification
Kindly remove CM 200, as it is a model specific	CM-200 utility software (CMDS) operating Environment	Delete this specification

To be added:-

Final specification (some new points are added and above mentioned changes incorporated)

- It should be European CE and US FDA Approved.
- Parameter display facility
- Weight – 12 Kgs or Less
- Printer –
  - Internal – Thermal printer with graphical output
    External – Inkjet/Laserjet
- USB Port facility
- Measuring Parameters – Stiffness Index from BUA, SOS
- Precision – less than 2% CV in osteoporotic person
- Reference Data – Calcaneum (age, sex and ethnicity).
- Measurement Time – Less than 15 Sec
- Electrical Req. - 100 - 240V AC
- Frequency – 50/60 Hz
- Operating Temp.: 15–35 Degree C

  Other Requirements
- System must have a three year standard warranty.
- It should supply with a cover for easy transportation of machine
- It should have reference database to produce T score as per WHO guidelines.

[PACKAGE 68]
ITEM: ANESTHESIA WORKSTATION

Point No.	Existing Tender Specification	Amendment requested by M/s. DRAGER	Amended by AIIA / HSCC
Point No 3: Representation:	Having mechanical hypoxic guard incorporating nominal basal flow of atleast 100 ml for minimal flow anaesthetic techniques with system on / off switch	kindly add- having pneumatic hypoxic guard since mechanical hypoxic guard is prone to wear and tear and requires maintenance. The system should be capable of operating on minimal flow anesthesia with flow as low as 500ml/ min.	Having pneumatic/ mechanical hypoxic guard incorporating nominal basal flow of atleast 100 ml for minimal flow anaesthetic techniques with system on / off switch
Point No 8 .	: Having 3 latest vaporizers for halothane sevoflurane and isoflurance all should be temperature, pressure and flow compensated, with key filling arrangement and should be quick mountable	Add- the vaporisers should be from the same manufacturer and should require no calibration in its life time to have smooth service backup	Having 3 latest vaporizers for halothane sevoflurane and isoflurance all should be temperature, pressure and flow compensated, with key filling arrangement and should be quick mountable . The vaporisers should be from the same manufacturer and should require no calibration in its life time to have smooth service backup
Point No 10:	Should be integrally fitted with at least 2 kg capacity reversible canister, double chamber type of CO2	Request you to please read it as: Should be integrally fitted with at least 1.7 kg capacity reversible canister, single	Should be integrally fitted more than 1.5 kg capacity reversible canister, Single or double chamber type of

	absorber system having provision to bypass. Absorber system through a switch and ventilate with bag.	chamber type of CO2 absorber system having provision to bypass absorber	CO2 absorber system having provision to bypass. Absorber system through a switch and ventilate with bag.
Point 10	Should be integrally fitted with at least 2 kg capacity reversible canister, double chamber type of CO2 absorber system having provision to bypass. Absorber system through a switch and ventilate with bag.	The size of canister normally is 800gm or more so please change it 900gms±100gms.	Should be integrally fitted with more than 1.5 kg capacity reversible canister, Single or double chamber type of CO2 absorber system having provision to bypass. Absorber system through a switch and ventilate with bag.
Point No 12:	Electrically operated pneumatically driven integrated anesthesia ventilator, bag in bottle type with volume control with pressure limited and integrated PEEP.	Electrically operated pneumatically / electrically driven integrated anesthesia ventilator.	Electrically operated pneumatically/electrically driven integrated anesthesia ventilator, bag in bottle type with volume control with pressure limited and integrated PEEP is a must.
Point No 14:	The ventilator should have bellows and be integrally mounted to absorber system	The ventilator should have piston or bellows and be integrally mounted to absorber system. No change of bellows should be required for different patients.	The ventilator should have bellows and be integrally mounted to absorber system. No change of bellows should be required for different patients.
Point No. 15	Should have large LCD display for patient data like, TV, MV frequency 02	The size of vebtillator is not mentioned so it should be asked as minimum 15'' as your requirement	Should have large LCD display of atleast 10'' for patient data like, TV, MV

	conc., P Mix. P Mean and air way bar graph along with set data simultaneously	is for large display. Since all companies has this size so 15" is ideal and touch screen input option should also be added.	frequency 02 conc., P Mix. P Mean and air way bar graph along with set data simultaneously Pressure vol/flow vs time waveform should be present.
Point No 22:	Monitor should be with multi-parameter module with minimum 15 inches colour TFT display with 8 channels	Monitor should be with multi-parameter module with minimum 15 inches colour TFT **touch** display with 8 channels	Monitor should be with multi-parameter module with minimum 15 inches colour TFT display with 8 channels. (Touch is optional)
	Should be US- FDA approved product	Should be US FDA or CE approved	Should be US FDA and CE approved
Point No. 24	Should have 24 hours graphical and numerical trend with split screen facility of all parameters with at least 15 critical alarms summary.	Trend should be 48 Hrs.	No Change
Point No. 26 Under CO2	Should be able to monitor and display all parameters in single screen.	IN OT user prefers Mainstream method against sidestream asked for and all above companies has this facility and technology is considered as Gold standard in CO2 Monitoring.	No Change

PACKAGE. 69 DEFIBRILLATOR

Point No.	Existing Tender Specification	**Amendment requested by Bidder**	Amended by AIIA / HSCC
Point No.2.2	Should monitor vital parameters (ECG, NIBP, HR, SPO2 and EtCO2[optional] and display them	You have asked ETCO2 as option. This should have standard as CO2 is most vital Parameter even more important than ECG and Oxygen Saturation (SPO2)	No Change
Point No.2.4	Should work on Manual and Automated external defibrillation (AED) mode. Manual selection maximum upto 360 J.	Biphasic Defibrillator its is normally 200J or More.	Biphasic Defibrillator its is normally 200J or More.
Point No.3.1	Should be a Low Energy Biphasic defibrillator monitor with Recorder, within a maximum energy of 360 Joules	Biphasic Defibrillator its is normally 200J or More.	Biphasic Defibrillator its is normally 200J or More.
Point No.3.9	Should have a battery capable of usage for at least 120 minutes and/or 30 discharges.	Increase to 5 Hrs or more.	No Change
Point No.3.12	Should have SP02 and NIBP integrated facility, EtCO2 (optional)	You have asked ETCO2 as option. This should have standard as CO2 is most vital Parameter even more important than ECG and Oxygen Saturation (SPO2)	No Change
Point No.7.1	Should be US-FDA or CE (European directive) approved product	The defibrillator is life saving devices. So it should be US FDA and European CE marked	US FDA / European CE approved

		Product as these standard are only given to quality product.	
		In package 39 you have asked Portable Ultrasound & Ultrasonic Cutting & Coagulating Devices. Since we do not deal in later so for us to quote both the Equipment is not possible.	Accepted See Amendment.

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

Director (AIIA)