

Amendment No 1 As Per Prebid held on 04/06/2015 at 11:00 Hrs

Tender Ref No:29 /MPPHSL/MCH Equip/2015 dated- 15 / 05 /2015

Bidders are requested to note the following amendment in the commercial and technical terms:

Commercial Conditions

Sr no	Terms & conditions	Existing bid condition	Amended as:
1	Quality parameters for Hospital furnitures	No quality parameters for hospital furnitures	Added:Furniture must have European certification/ISO13485/BIFMAGCertification/ISO 9001:2008/ISO 14001:2004/BSOHSAS 18001:2007 Certicates.All hospital related furnitures should have a valid European CE statement of Compliance from CE notified body or its local supporting affiliate .(Attach a copy in tender as proof).Manufacturers to confirm Furniture supplied conform to highest standard of manufacturing process including CO2 Argon Welding ,Zinc Phosphate Pre-treatment process.Test report of Salt Spraying of 1000 hours be submitted ,
2	Photographs	Photographs are illustrative only and doesnot indicate to quote any particular model.	Please go as per specifications.
3	Test Reports	Not asked test certificates	test reports in case of furniture for SS304 grade wherever SS used must be attached.
4	Surgical instruments	On good quality steel of Surgical instruments	European CE or USFDA (from bodies notified under 93/42/EEC devices),with high graded steel (Gr 303/304/410/420) and should have catalogue number ,aricle number /country of origin/manufacturer engraved on each instrument
5	Manufacturers Authorisation	Qualification Criteria	Qualification Criteria
		a. The Bidder should be (i) a Manufacturer in India or (ii) Indian subsidiary of foreign manufacturer or (iii) authorized importer of a manufacturer (who is not having any office (and/or not operating) in India either directly or through its subsidiary).	a. The Bidder should be (i) a Manufacturer in India or (ii) Indian subsidiary of foreign manufacturer or (iii) authorized Importer of a manufacturer
6	Exemption from tender fees	No exemption	Estimated requirement may be more after rate contract.EMD in form of BG is returnable to unsuccessful bidders.Performace Guaranty in form of BG is to be submitted later.
7	Payment terms	No change	
8	delivery period	No change	80% on delivery and 20% on installation asked-No change
9	Bid Security	No change	90-120 days was asked but not agreed-No change
	Clause no 15.Warranty & CMC	The warranty shall remain valid for 24 months from thedate of installation & comissioning except for the following;b.No conditional warranty like mishandling ,manufacturing defects etc will be acceptable,Warranty as well as comprehensive Maintenance contract will be inclusive of all accessories and turnkey work	The warranty shall remain valid for 36 months from date of installation & commissioning except for the following;b. The instrument that the instrument free from all defects and workmanship.No conditional warranty would be acceptable.Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and turnkey work.
		All other terms & conditions of the tender remains unchanged.	

Sr.No	Equipment description for Maternal Health & Child Health	Original Specifications	Amended as:	
1	Autoclave (Vertical) SS 200 litres	Autoclave Vertical SS Vertical Electric Autoclave with capacity of 200 litres SS - Should have a triple walled construction. - The working chamber, steam jacket, outer chamber and the lid should be made of stainless steel. - Should have water inlet and outlet valves. - Should have a water level gauge. - Should have gauges for measuring inner and outer steam pressure. - Should have an inner temperature indicator. - Should have automatic pressure control switch, safety valve and eject valve. - Should have joint-less silicone gasket. - Should have automatic low water protection. - Should be supplied along with bins. - Should have an ISI mark. - Should have 121°C working temperature at 15 to 20 psi pressure. - Chamber volume should be approximately 300mm diameter and 500mm depth with minimum 2 bin type. - Should be operated in mains 220 – 240 V ac 50 Hz input power supply. Water inlet and outlet pipe should be provided and connections should be done on a turnkey basis. Warranty: 3 years Warranty and 3 years CMC	Autoclave Vertical SS Vertical Electric Autoclave with capacity of 200 37 litres SS - Should have a triple walled construction. - The working chamber, steam jacket, outer chamber and the lid should be made of stainless steel. - Should have water inlet and outlet valves. - Should have a water level gauge. - Should have gauges for measuring inner and outer steam pressure. - Should have an inner temperature indicator. - Should have automatic pressure control switch, safety valve and eject valve. - Should have joint-less silicone gasket. - Should have automatic low water protection. - Should be supplied along with bins. - Should have an ISI mark. - Should have 121°C working temperature at 15 to 20 psi pressure. - Chamber volume should be approximately 300mm diameter and 500mm depth with minimum 2 bin type. - Should be operated in mains 220 – 240 V ac 50 Hz input power supply. Water inlet and outlet pipe should be provided and connections should be done on a turnkey basis.	Bed Side Locker SS with keys Bed Side Medicine Cabinet/locker in one drawer - Metallic, with design features for easy cleaning and disinfection. - Availability of drawer and a lockable compartment. - Height: Added:Top made up of Stainless Steel and body consisting of 2 sides and back is made from one piece made of 20G M.S. CRCA sheet.-Top shall be fitted with superimposed SS Sheet with raised edges on three sides.Total height of locker is changed to minimum 36.5cms The locker should be mounted on 4 swivel synthetic body caster 50mm wheel sia without brake. Apprx size 400mmx 400mmsquarex 820mmH
2	Bed Side Locker SS with keys	Bed Side Locker SS with keys Bed Side Medicine Cabinet/locker - Metallic, with design features for easy cleaning and disinfection. - Availability of drawer and a lockable compartment. - Height: 22.44 in. (57 cm).		

3	Bed Side Screen (SS-Godrej Model)* As per requirement	<ul style="list-style-type: none"> 3- Privacy / Side Screens (Movable) Size: 244cm L X 165 cm H (opened); 60cm L 165 cm (closed) Supplied with Rod & Curtains. Special Knockdown construction. Frame work made of Epoxy Coated Mild Steel with castors. Type: 3 & 4 fold type The curtain fabric should be washable with colour fastness Warranty: 3 years Warranty and 3 years CMC 	Clarified as Three fold Type ,Size 1680mmL x 2450mm W Appox.Supplied with rods and curtains -Tubular framework made from 19mm dia x 1.2mm ERW tube .Base tubular made from dia 25.4mmx1.2 mm tube.Apprx..Middle frame 1220mm side frame 610mm each frame with 4 hooks
4	Bell From Labor Room		No changes
5	Blood Pressure Apparatus(digital)	<ul style="list-style-type: none"> BP Apparatus (digital) Pulse Rate Indicator Memory Recall One Touch Operation Digital Sensor Auto Shut off Function Clinically Proven 4 AA reachable Battery Operated Should have data back and transfer facility Device characteristics Memory Function: Yes Pulse Rate Indicator: Yes Display: LCD USB port Measurement Measurement Method: Digital Sensor Measurement Accuracy Pressure (mmHg): ±3 mmHg Measurement Range Pressure (mmHg) (Min): 40 mmHg Measurement Range Pressure (mmHg) (Max): 260 mmHg Measurement Range Pulse (beats/min) (Max): 160 beats/min Measurement Range Pulse (beats/min) (Min): 40 beats/min- Measurement Accuracy Pulse (% of reading): ±5 % of reading Power requirements No. of Battery: 4 Power Source: Battery Battery Type: AA 	<ul style="list-style-type: none"> BP Apparatus (digital) Pulse Rate Indicator- Memory Recall- One Touch Operation- Digital Sensor- Auto Shut off Function- Clinically Proven 4 AA reachable Battery Operated and should be able to operate on 220 V +/- 15% AC 50 Hz ,supplier should provide power cord of sufficient length. Should have data back and transfer facility Device characteristics Memory Function: Yes- Pulse Rate Indicator: Yes- Display: LCD- USB port/ (Should have data storage facility) Measurement Measurement Method: Digital Sensor Measurement Accuracy Pressure (mmHg): ±3 mmHg Measurement Range Pressure (mmHg) (Min): 40 mmHg or Less Measurement Range Pressure (mmHg upto): 260 mmHg or more Measurement Range Pulse (beats/min) (upto): 160 beats/min or more Measurement Range Pulse (beats/min) (Min): 40 beats/min- Measurement Accuracy Pulse (% of reading): ±5 % of reading Pow-Should be operated on battery of size AA(Normal Pencil cell.) Power Source: Battery- Battery Type: AA Should have safety certificate from a competent authority European CE or FDA (US) approved product. Manufacturer's quality management system complies with ISO 13485/USFDA/European CE/IE approved. Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required. Should be provide user manual in English/Hindi Warranty: 3 years Warranty
6	Defibrillator	<ul style="list-style-type: none"> Defibrillator (manual / AED) Should be USFDA & European CE/IEC Approved Should have facility for: <ul style="list-style-type: none"> ECG Monitoring Defibrillation External Pacing (transcutaneous) Recorder Should be of Rectilinear Biphasic Technology having energy selection upto 1-200 Joules. Must be capable of monitoring ECG through ECG cables, Multi function electrodes and paddles. Should have the facility for automatic external defibrillation for both adults and pediatric patients. Should have ECG waveform display on bright high resolution display. Should be compact and portable with inbuilt rechargeable battery. Should not be more than 7 kgs with battery and paddles. Should have an inbuilt recorder printing ECG trace and stored information. Should have a facility of external non-invasive pacing with 40ms pulse width. Should have ability to use ETCO2 both intubated & nonintubated patients with main stream technology. Should have user selectable alarm settings. Should work on mains as well as on rechargeable battery. Should be supplied with Adult and inbuilt Pediatric external paddles. Should have facility to increase/decrease energy selection on paddles preferred. Charging time should be less than 7 secs at maximum energy. Should have an inbuilt upgradation facility for SpO2. Should be supplied with following accessories/items. <ul style="list-style-type: none"> S.L.A. Battery – 1 no's 3-Lead ECG Cable – 1no's External Defibrillator paddles (pediatric inbuilt and adult) – 1 no's 	<ul style="list-style-type: none"> Defibrillator Manual / AED Should be USFDA & CE/IEC Approved Should have facility for:- ECG Monitoring - Defibrillation - External Pacing (transcutaneous) - Recorder Should be of Rectilinear Biphasic Technology having energy selection upto 1-200 Joules. Must be capable of monitoring ECG through ECG cables, Multi function electrodes and paddles. Should have the facility for automatic external defibrillation for both adults and pediatric patients. Should have ECG waveform display on bright high resolution display. Should be compact and portable with inbuilt rechargeable battery. Should have an inbuilt recorder printing ECG trace and stored information. Should have a facility of external non-invasive pacing Should have user selectable alarm settings. Should work on mains as well as on rechargeable battery. Should be supplied with Adult and inbuilt Pediatric external paddles. Should have facility to increase/decrease energy selection on paddles preferred. Charging time should be less than 10 +/- 2 secs at maximum energy. Should be supplied with following accessories/items. <ul style="list-style-type: none"> Lithium Ion Battery – 1 no's , - 3-Lead ECG Cable – 1no's External Defibrillator paddles (pediatric inbuilt and adult) – 1 no's -AED disposable pads -10 nos., Disposable ECG Electrods-50 nos., Gelly Bottle- 1 no- European CE or USFDA certificate approval required, Warranty: 5 years Warranty and 3 years CMC
7	Bucket Dustbin(Steel)		No change
8	Dressing Drum SS		No change
9	Dressing Trolley SS	<ul style="list-style-type: none"> Made of stainless steel, with two/three shelves. Stainless steel rails to cover three sides of top shelf & four of bottom Provided with a bowl and a bucket; both made of stainless steel Trolley mounted on four 10 cm swivel castor, of which two have breaks As per IS standard 	Only 304 grade SS be used for tubular framework & SS shelves of trolley with buff finish.Size: Verticles of 31.7mmOD x 18G tube approx.,Horizontal; stays of 19mmOD x18G tube approx.on all 4 sides to support SS Shelves 20 G cover with 10mm dia SS railings on all 4 sides. Size:Approx 1010mmLx510mmWx 900mmH.Should have Two Shelves Shelf size Approx:750mmLx 500 mm W.It should be mounted on 125mm dia non rusting castor wheels with 2 with brakes.

10	<p>Electric Horizontal Sterilizer with capacity of 10 liters SS</p> <p>Electric Horizontal Cylindrical Instrument Sterilizer (10 Litres)</p> <ul style="list-style-type: none"> - Chamber Size 400 mm diameter x 600 length in inches 16" x 24".Accommodate 2 nos of Drums size 15" x 10" - Chamber Capacity 10Liters(Approximately) - Cycle Operation mode - Manual operated through multiport Valve to set and select. - Door Single door, Hinge type with radial locking. - FEED WATER PUMP To draw water automatically, when needed in the inbuilt boiler. - Material of Construction - Chamber: Stainless Steel 316 Quality - Door: Stainless Steel 316 Quality - Radial locking arm for door: Stainless steel 304 quality - Outer cover : Stainless steel 304 quality - Inbuilt boiler/Steam Generator: Stainless steel 304 quality. - Connecting pipes : Stainless steel 304 quality. - Jacket: Boiler quality steel plate. - Stand: Mild steel with anticorrosion paint. - Door jacket: Silicon rubber gasket, withstand up to 140 deg c - Working Temperature and 121 degrees and 1.2 kg/square cmpressure - Electrical Heater Load <p>Electric Horizontal Sterilizer with capacity of 10 liters SS</p>		<p>No changes in specifications.Added:Radial locking arm for door: Stainless steel 304 quality Double Safety Radial Locking Arrangement essential</p> <p>Double Safety Valve Protection</p> <p>Hydraulic Testing Up to 2.5 times the working pressure</p> <p>Calibration And Protocol Documents to be enclosed.</p>
11	<p>Electric Suction Machine</p> <p>Suction Machine Electrical and Foot Operated</p> <ul style="list-style-type: none"> - Portable suction unit: size 38x17x28.5cm, weight 5.1kg - Technical specifications: SUCTION MACHINE AC/DC/ with pump and Food operated - Power supply: 230-240V/50Hz - Vacuum capacity: 18 litres/mim – - The membrane vacuum regulator permits accurate vacuum settings. - 0 to 30 Lits flow rate - High Vacuum below - 300 mm of Hg & High Vacuum of - 800 mm of Hg - Battery backup of 90 minutes minimum - Overflow protection ensured. - Double over flow protection system (bottle and pump) - Working temperature 0 to +450 C. - Should have safety certificate from a competent authority CE or FDA (US) approved product. <p>Electric Suction Machine</p>		<p>Electric Suction Machine</p> <p>Suction Machine Electrical and Foot Operated</p> <ul style="list-style-type: none"> - Portable suction unit: size 38x17x28.5cm approx., weight 5.1kg approx.+/- 1 kg - Technical specifications: SUCTION MACHINE AC/DC/ with pump and Food operated - Power supply: 230-240V/50Hz - Vacuum capacity: 18 litres/mim – - The membrane vacuum regulator permits accurate vacuum settings. - 0 to 30 Lits flow rate - High Vacuum below - 300 mm of Hg & High Vacuum of - 800 mm of Hg - Battery backup of 90 minutes minimum - Overflow protection ensured. - Double over flow protection system (bottle and pump) - Working temperature 0 to +450 C. - Should have safety certificate from a competent authority CE or FDA (US) approved product.
12	<p>Electronic Weighing Machine -baby weighting</p> <p>Electronic Weighing Machine -baby weighing</p> <p>Weighing machine baby digital</p> <ul style="list-style-type: none"> - Table top, light and portable - Hygienic, easy to clean baby tray. - Resolution of ±5 g (optional ±1 gm). - Freeze reading display - Zero weight adjustment facility - Measurement does not change with position of baby on the pan - Quick, clear read outs - Types of scale: Spring balance, Beam balances and Electronic weighing scales - European CE or USFDA certification is required - Three years Warranty and 3 years CMC <p>Electronic Weighing Machine -baby weighing</p> <p>Weighing machine baby digital</p> <ul style="list-style-type: none"> - Table top, light and portable - Hygienic, easy to clean baby tray. - Resolution of ±5 g (optional ±1 gm). - Freeze reading display - Zero weight adjustment facility - Measurement does not change with position of baby on the pan - Quick, clear read outs - Types of scale: Spring balance, Beam balances and Electronic weighing scales - European CE or USFDA certification is required - Three years Warranty and 3 years CMC 		<p>Electronic Weighing Machine -baby weighing</p> <p>Weighing machine baby digital</p> <ul style="list-style-type: none"> - Table top, light and portable - Hygienic, easy to clean baby tray. - Resolution of ±5 g (optional ±1 gm). - Freeze reading display - Zero weight adjustment facility - Measurement does not change with position of baby on the pan - Quick, clear read outs - Types of scale: Spring balance, Beam balances and Electronic weighing scales - European CE or USFDA certification is required - Three years Warranty and 3 years CMC,on order the machine must be certified by Weights and measures by the tenderer without any additional charges.Weight hold function is required.Feet levelling function is required.Pan made of ABS plastic.Max capacity 20kgs x5gms.
13	<p>Emergency Drugs Trolley</p> <p>Emergency Drugs Trolley</p> <p>Medicine crash cart</p> <ul style="list-style-type: none"> - 12.5cm swivel media castors, two are breaking - Corner buffers - Oxygen Cylinder holder provision - I.V. Rod provision - Cardiac massage board & 3 laminated shelves - Overall approx size : 940mmL x 490mmW x 1535mmH - Six removable bins - Two Polystyrene storage unit with three drawers each. - Warranty: 3 years Warranty <p>Emergency Drugs Trolley</p> <p>Medicine crash cart</p> <ul style="list-style-type: none"> - 12.5cm swivel media castors, two are breaking - Corner buffers - Oxygen Cylinder holder provision - I.V. Rod provision - Cardiac massage board & 3 laminated shelves - Overall approx size : 940mmL x 490mmW x 1535mmH - Six removable bins - Two Polystyrene storage unit with three drawers each. - Warranty: 3 years Warranty 		<p>Emergency Drugs Trolley (made of Stainless Steel)</p> <p>Medicine crash cart</p> <ul style="list-style-type: none"> - 12.5cm swivel media non rusting castors, with 2 brakes.Wheel centre having precision ball bearing to run smoothly. - Corner buffers-Provided with round rubber buffer ,one on each corner - Oxygen Cylinder holder provision Stand epoxy powder coated on one side - I.V. Rod provision-Stainless steel saline rod made of 12mm dia 304 grade SS approx 750mm long and bent at top to have an arm of 400 mm approx at the end of which of 6mm dia - Cardiac massage board & 3 laminated shelves Pullout cardiac massage board made of MDF of minimum size 670 x330 x 12mm laminated on top and bottom of laminate of 1mm and 0.6mm respectively.MDF shall have water resistant property and made from eco friendly material. - Overall approx size : 940mmL x 490mmW x 1535mmH minimum dimensions - Six removable bins The emergency equipment cart should have the following facilities:6 Nos hand out bins to keep important supplies of size: 110mmW x 125 mm D x75mm H approx. - Two Polystyrene storage unit with three drawers each of sizes 305mm Lx380mm D x320mm H approx.Light weight 2 numbers plastic box with 3 drawers each to hold emergency medicines,catheters etc. with boxes of sizes 85mmW 175mm L 50mm H 3 nos.,and 85mm W 255 mmL 50mmH-4 numbersThe crash cart should have 25.4mm x 18 G SS tubular framework. - Warranty: 3 years Warranty

14	Fire Extinguisher	Fire Extinguisher (quote for 5 kg size/Type of Cylinder - Class ABC)	Fire Extinguisher (quote for 6 kg size/Type of Cylinder - Class ABC)IS code IS 15683 with ISI Mark is required.
15	Examination Table SS with mattress	<p>Examination Table SS with mattress Examination Table SS with mattress (at pre & post Labour Area)</p> <ul style="list-style-type: none"> - Size in mm: 1830 L x 550 W x 800 H mm - Three section top with Adjustable head section, seat section and leg section. - Complete with SS bowl 32 cm diameter - Standard padded Leg holder. - Top upholstered with waterproof synthetic material and finishing done using epoxy powder. - Made of MS tubular steel, the beds should be sturdy, wear & tear resistant and long lasting. - Available with mattress - High density foam ILD 48-58(lbs/50sq.) - Thickness- 3"(inch) - Cover with venlylized nylon cover with Zipper - Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades <p>16CFR1633&16CFR/1632</p>	<p>Top of Examination Table to be made in 3 sections fabricated mainly out of 18 G S.S. sheets:Backrest section size approx 750mm x 625 mm approx with welded on 25mm dia SS tube x 16G hinged on 45mm long x 25mm W x 5mm thick SS flat pieces welded to the horizontal supports.The backrest should be adjustable on 4 different inclinations by ratchet arrangement made of 12mm dia SS rod supported on SS flat 32mmx5mm thick size approx.Middle section 350mmx 655mm approx be made of 18G S.S. sheet with reinforced trapezoidal recess which should measure effective 200mm inside,265mmoutside,130mmdeep size approx.,leg section should measure 695mmx 595mm approx and be made of 18 G SS Sheet welded on 25mm dia x 16 G tubes with suitable sliding arrangement.,Size: 1880mm length when extended x 900mmWx 800mmH• Complete with SS bowl 32 cm dia</p> <p>Waste collecting stainless steel removable Bowl should be provided and should rest on SS bracket made of not less than 9.5 mm dia SS rod. • Standard padded Leg holder-Double bent rubber padded lithotomy rods should be made of 12mm dia stainless steel.These should be adjustable by two clamps levers of 10 mm dia stainless steel total rod having arm length of 100mm.Supplied with a pair of leg belt.</p> <ul style="list-style-type: none"> • Top upholstered with waterproof synthetic material and finishing done using epoxy powder. <p>Top should be made in 3 sections fabricated mainly out of 18 G SS sheet.The entire table top should give trendelenburg position by gas spring system in stepless instantaneous manner by foot operated mechanism.</p>
			<p>Continued for item no 15• Made of MS tubular steel, the beds should be sturdy, wear & tear resistant and long lasting.</p> <p>It should have tubular base and should be made of 31.75mm Dia x 16 G MStubes with horizontal length wise support stays of 25 mm x16G MStubes.The frontal stay should join these length wise stays in such a way so as to facilitate the obstetrician to stand or sit close to the table. the removable safety side railings should be of size 685 mmL x 200mm H approx should be made of 12mm dia SS rods fitted on head end on both sides. Patients bearing down handgrips should be made of 12 mm dia 18G SS tube fitted with PVC handle and should have location adjustability for patients convenience.</p> <p>Entire trendelenburg arrangement should be mounted on rectangular frame of size 60mmx30mmx16 G with one 25 mm x 18 G square MS tube support..this frame should be hinged on tubular base The legs should be fitted with high quality PVC shoes with nylon reinforcement.</p> <ul style="list-style-type: none"> • Available with mattress Suggested:Suitable rexin coloured mattress of 25mm thickness • High density foam ILD 48-58(lbs/50sq.)Suggested :Rubber foam(latex) • Thickness- 3"(inch)Suggested 25 mm thickness • Cover with venlylized nylon cover with Zipper Suggested PVC rexin covered • Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades PVC rexin covered waterproofAll MS parts are passed through 8 tank <p>Pretreatment and should be Epoxy powder coated.</p> <p>CE statement of compliance from CE notified body or its local supporting affiliate.</p>

16	Foetal Doppler	<p>Foetal heart Doppler</p> <ul style="list-style-type: none"> - Foetal Doppler European CE approved, with blue backlight for dark sight - Easy operation for everyone, over 10 years quality satisfaction - Tm-100B Foetal Doppler European CE Approved - Ultrasound frequency : 2.5+0.25Mhz - Ultrasound output power : 10mW/cmDC - Power supply:9.6V rechargeable battery - Working environment temperature : 10-40 - Features: - Safe: Ultrasound dosage is under 50% of the national standard. - Convenience : Small size, convenient for multi bed monitoring and outside diagnosing - Sensitivity: Monitor 12 weeks above unborn foetal heart beat. - Economic: Adopt with professional recharger battery, for effective cost-saving and also can use 9.6V disposable batteries. - Practical: Unique network terminal service can connect central network in hospital through dial-up at home, more timely, reliable and accurate for foetal monitoring. tm-100B Foetal Doppler European CE Approved - Manufacturer's quality management system complies with ISO 13485. - Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required. - Should provide user manual in English/Hindi. 	<p>Foetal heart Doppler</p> <ul style="list-style-type: none"> - Foetal Doppler European CE approved, light for dark sight - Easy operation for everyone, over 10 years quality satisfaction - Tm-100B or equivalent make Foetal Doppler European CE Approved with advanced real time auto correlation fetal rate processing - Ultrasound frequency : 2.5+0.25Mhz Waterproof - Power supply: Approx. 9V rechargeable battery - Working environment temperature : 10-40 - Features: - Safe: Ultrasound dosage is under 50% of the national standard. - Convenience : Small size, convenient for multi bed monitoring and outside diagnosing - Sensitivity: Monitor 12 weeks above unborn foetal heart beat. - Economic: Adopt with professional recharger battery, for effective cost-saving and also can use 9.6V disposable batteries. - Foetal Doppler European CE Approved - Manufacturer's quality management system complies with ISO 13485 / IEC standard. - Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required.· Should provide user manual in English/Hindi.
17	Foot Operated Suction Machine		no change
18	Fowlers Bed SS with Mattress	<p>Fowlers Bed SS</p> <p>Fowler Bed with mattress</p> <ul style="list-style-type: none"> - Bed's frame work of strong and precise steel tubes having 'H' type legs on 10 cms castors-two with brakes. - Having three sections top of perforated CRCA sheet duly machine press bent with mattress guards. - Backrest and knee rest sections maneuvered by two separate screws from foot end. - ABS Panels Board. IV Rod locations. - Size: 208 L x 90 W x 60 H cms. - Available with mattress - High density foam ILD 48-58(lbs/50sq.)Thickness- 6"(inch) - Cover with venlylized nylon cover with Zipper - Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades 16CFR1633&16CFR/1632 -Warranty: 3 years Warranty 	<p>Fowlers Bed SS</p> <p>Fowler Bed with mattress</p> <ul style="list-style-type: none"> - Bed's frame work of strong and precise steel tubes having 'H' type legs on 10 cms castors-two with brakes.:Four section 18G CRCA M.S. uniformly perforated though out the sheet top for easy breathing and air ventilation Outer top frame should be made from Universal size 60mm x30mm x 16 G ERW MS rectangular tubesHaving "H" type legs and The base frame shall be mounted on 125mm dia non-rusting castors, two with brakes Castor housing and wheels made from high grade non floor~staining synthetic materials with integrated thread guards. Wheel centre having precision ball bearing to run smoothly. - Having 4 sections top of perforated CRCA sheet duly machine press bent with mattress guards.Four section 18G CRCA M.S. uniformly perforated though out the sheet top for easy breathing and air ventilation, Mattress guards - Backrest and knee rest sections maneuvered by two separate screws from foot end.-Manual adjustments for Backrest, Upper Leg thru screw systems with thrust bearings maneuvered by a single handle - ABS Panels Board. IV Rod locations.-Poly Propylene head & foot end panels instantly removable without any locking mechanism.4 corner rubber buffers.4 loactions should be provided on bed frame for saline rod. - Size: 208 L x 90 W x 60 H cms. minimum dimensions(without mattress) Bed frame: Approx 1980mmL x 865mm W made from 60mm x 30mm x 1.6mm thick ERW tube,Mattress Platform: Approx 1980 mm Lx 865 mmW - Available with mattress::4 section mattress with 4 inch thick 40 density PU foam instead of 6 inches - High density foam ILD 48-58(lbs/50sq.)Thickness- 6"(inch) - Cover with venlylized nylon cover with Zipper -Warranty: 3 years Warranty European CE Certification is required CE statement of compliance from CE notified body or its local supporting affiliate.
19	Haemoglobinometer		No change
20	Horizontal Autoclave		No change

21	Hospital Cot/Mother Ward Bed with mattress	<p>Patient Bed with mattress</p> <ul style="list-style-type: none"> - Top of the bed made with CRCA sheet. - Frame work made with rectangular ms pipe. - Strong legs mounted on rubber stumps. - Detachable head and foot bows in ms. - Pre treated and epoxy powder coated finishing. - Overall size: - 195(L) x 92(W) x 60(H) cm. - Available with mattress - High density foam ILD 48-58(lbs/50sq.) - Thickness- 6" - Cover with venlylized nylon cover with Zipper - Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades 16CFR1633&16CFR/1632 	<p>Patient Bed with mattress</p> <ul style="list-style-type: none"> - Top of the bed made with CRCA sheet.Two Section 18 G CRCA MS uniformly perforated through out the sheet top for easy breathing and air ventilation. - Frame work made with rectangular ms pipe.Outer frame should be made from 60mmx 30mm x 16G approx rectangular tube - Strong legs mounted on rubber stumps.The frame shall have proper support and it shall be fitted with high quality PVC shoes with nylon reinforcement. - Detachable head and foot bows in ms..The frame shall have easily detachable head and foot side bows. Pre-treated & epoxy powder coated shall be made from MS 31.7mm dia x 18G, Both head and leg bows should have one tubular horizontal support 25mm dia x 18 G ,MS ERW tube and three vertical supports of 15.80 mm dia x 18 g ,MS ERW tubes - Pre treated and epoxy powder coated finishing..All MS parts should be in house pretreated in min 8 tanks process and anti microbial epoxy powder coated ,50-60 microns thickness - Overall size: - 195(L) x 92(W) x 60(H) cm. approx minimum {universal sizes:Approx 2005mm L x 920 mm W x 600mm H with buffers (without mattress)}Bed Frame:Approx 1920mm L x 865 mm W made from 60mm x 30mm x 1.6 mm thick ERW tube - Mattress Platform: Approx 1920 mm l x 865 mm W - Available with mattress - High density foam ILD 48-58(lbs/50sq.) - Thickness- 2 section mattress with cover ,4" thick - Cover with venlylized nylon cover with Zipper - Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades ,Waterproof PVC rexine cover
22	Hub cutter Electric		No Change
23	Hydraulic OT Table Major	<ul style="list-style-type: none"> - The table should have minimum 4 sections - The table should have easily detachable split leg and easily detachable head section. - The table top should have a minimum height of 765mm or lesser. - The table top should have a minimum vertical stroke of 250mm - Should have sealed hydraulic mechanism to avoid spillage. - Should have at least 25° trendelenburg and reverse trendelenburg. - Should have at least 20° lateral tilt movement. - Should have at least 80° back up movement with gas spring mechanism. - The head section should have up and down movement. - The leg section should have 90° down movement and should move side wards to a minimum of 90 degree. - The table should have a heavy and sturdy base and compact to provide adequate foot room for the operating team. - The table should be mounted on heavy duty casters which offer enhanced weight bearing capacity and free mobility. - The table should have a single lever foot operated brake pedal. - Should have a minimum patient weight bearing capacity of 100 Kgs. - Base should be made of cast iron and all other parts and accessories should be completely made of Stainless Steel 304 grade except the cushion, gas spring and hydraulic system which should be made of any non-resting metals like brass etc. - The table should be supplied with the following accessories. - Mattress for the complete table top in sections-1 set - A pair of arm boards with pad and fixing clamp - 1 - A pair of padded shoulder support with clamps - 1 - A pair of padded lateral support with clamps - 1 - A pair of leg crutches with clamps - 1 	<p>Hydraulic OT Table (Trendelenburg)</p> <ul style="list-style-type: none"> • The table should have minimum 4 sections. • The table should have easily detachable split leg and easily detachable head section. • The table top should have a minimum height of 750mm and should be adjustable up to 900 mm or more. • The table top should have a minimum vertical stroke of 250mm • Should have sealed hydraulic mechanism to avoid spillage. • Should have at least 25° trendelenburg and reverse trendelenburg. • Should have at least 20° lateral tilt movement. • Should have at least 80° back up movement with gas spring mechanism. • The head section should have up and down movement. • The leg section should have 90° down movement and should move side wards to a minimum of 90 degree. • The table should have a heavy and sturdy base and compact to provide adequate foot room for the operating team. • The table should be mounted on heavy duty casters which offer enhanced weight bearing capacity and free mobility. • The table should have a single lever foot operated brake pedal. • Should have a minimum patient weight bearing capacity of 100 Kgs. • Base should be made of cast iron and all other parts and accessories should be completely made of Stainless Steel 304 grade except the cushion, gas spring and hydraulic system which should be made of any non-resting metals like brass etc. • The table should be supplied with the following accessories. - Mattress for the complete table top in sections-1 set
			<p>Continued for Hydraulic table-- A pair of arm boards with pad and fixing clamp - 1</p> <ul style="list-style-type: none"> - A pair of padded shoulder support with clamps - 1 , - A pair of padded lateral support with clamps - 1 - A pair of leg crutches with clamps - 1 , - Anesthetic screen frame with clamp - 1 - Patient restraint strap - 1 • The table should have the facility for easily detachable kidney bridge attachment and the price shall be quoted optionally. • Available with mattress o High density foam ILD 48-58(lbs/50sq.),o Thickness- 2",o Cover with venlylized nylon cover o Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades 16CFR1633&16CFR/1632 Table should be with European CE approved product.
24	Hysterectomy Instruments set		No change

25	<p>Infusion Pump or Syringe Pump</p>	<p>Infusion Pump or Syringe Pump Syringe Infusion Pump Description of Function - The Syringe Infusion Pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of I.V. medication in critical medical care. Operational Requirements - The syringe pump must be programmable, user friendly, safe to use and must have battery backup and comprehensive alarm system. System Configuration - Syringe infusion pump with battery backup alarm and with complete accessories. Technical Specifications - Flow rate programmable from 0.1 to 1000 ml/hr. or more in steps of 0.1 ml/hr. with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF. - Bolus rate must be programmable to 50 – 1000 ml/hr. or more with 50ml/hr increment with infused volume display. Reminder audio after every 1 ml delivered bolus. SAVE last Bolus rate even when the AC power is switched OFF. - Display of Drug directory of more than 50 drugs, customized and adjustable. - Keep Vein Open (KVO) must be available 1.0 ml/hr. or set rate if lower than 1.0 ml. User must have choice to disable KVO whenever desired. - Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg - Must Work on commonly available 5, 10, 20, 50/60 ml Syringes with accuracy of minimum of +/-2% or better. - Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot;</p>	<p>Infusion Pump or Syringe Pump Syringe Infusion Pump Description of Function - The Syringe Infusion Pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of I.V. medication in critical medical care. Operational Requirements - The syringe pump must be programmable, user friendly, safe to use and must have battery backup and comprehensive alarm system. System Configuration - Syringe infusion pump with battery backup alarm and with complete accessories. Technical Specifications - Flow rate programmable from 0.1 to 1000 ml/hr. or more in steps of 0.1 ml/hr. with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF. - Bolus rate must be programmable to 50 – 1000 ml/hr. or more with 50ml/hr increment with infused volume display. Reminder audio after every 1 ml delivered bolus. SAVE last Bolus rate even when the AC power is switched OFF. - Display of Drug directory of more than 50 drugs, customized and adjustable. - Keep Vein Open (KVO) must be available 1.0 ml/hr. or set rate if lower than 1.0 ml. User must have choice to disable KVO whenever desired. - Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg -</p>
			<p>continued for Infusion pump- Must Work on commonly available 5, 10, 20, 30,50/60 ml Syringes with accuracy of minimum of +/-2% or better.- Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot;disengaged plunger, unsecured barrel etc.,- Anti-bolus system to reduce pressure on sudden release of occlusion,- Must have comprehensive alarm package including: Occlusion limit exceed alarm , Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre- alarm and alarm, AC power failure. - Comprehensive Training for All Staff of user department and support services till familiarity with the system is required - Rechargeable Battery having at least 5~6 hour backup for about 5ml/hr. flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred. Accessories, spares and consumables- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above). Operating Environment:- The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc. - Power supply: 220 – 240 VAC, 50Hz with appropriate INDIAN 3 PIN plug. The power cable must be at least 3 meter in length. Standards and Safety D47,- Must submit ISO13485:2003/AC:2007 for Medical Devices - Should have safety certificate from a competent authority European CE or FDA (US) approved product. - Complies with Medical Device Directive 93/42/EEC, class risk IIa or equivalent. Manufacturer's quality management system complies with ISO 13485.- Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required.- Warranty: 3 years Warranty and 3 years CMCStandards and Safety Requirements- Must submit ISO13485:2003/AC:2007 for Medical Devices,- Should have safety certificate from a competent authority European CE or FDA (US) approved product.-</p>
26	<p>Instrument tray with cover - stainless steel 31X19.5X6.5 cm</p>		<p>No change</p>

27	IV Stand SS	<p>IV Stand SS IV Stands (equal to total functional beds in ward) - Stainless steel - 4 hook top, 5-legs - Frame mounted on PVC rubber Stumps - Height adjustable up to 150/240 cm - 24" diameter, low-center-of-gravity steel base with epoxy finish - 3" premium rubber casters with ball bearings (2 yr. warranty) - Welded steel base pole with epoxy finish - Slow-descending stainless telescoping top pole 99" fully extended; 68" compressed I.V. STAND 1. Overall approx. size : height : 136 to 244 cm (with adjustable height) 2. Main Frame : Strong & Sturdy five legged neatly made base mounted on five 2.5cm dia swiveling ball castors of good quality S.S. double hocked I.V. rod & S.S. tube spring loaded.</p>	<p>IV Stand SS IV Stands (equal to total functional beds in ward) - Stainless steel- Strong Stainless Steel 304 grade tubular construction - 4 hook top, 5-legs-Strong SS 304 grade solid rod with 4 hooks .mounted on 5 pronged rectangular tubular base -Stable - Frame mounted on PVC rubber Stumps-Strong SS 304 grade solid rod with 4 hooks .mounted on 5 pronged rectangular tubular base - Height adjustable up to 150/240 cm approx.-height adjustable from Approx 1620 mm to 2340 mm - 24"diameter, low-center-of-gravity steel base with epoxy finish+ Strong SS steel 304 grade solid rod with 4 hooks .mounted on 5 pronged rectangular tubular base - fitted with 5 swivel ,rust proof synthwtic body castors 50mm wheel dia without brakes - Welded steel base pole with epoxy finish - Slow-descending stainless telescoping top pole 99" fully extended; 68" compressed Height Adjustable from Approx 1620mm to 2340mm</p> <p>CE statement of compliance from European CE notified body .</p>
28	Jumbo Oxygen Cylinder		No change
29	Multipara Monitor	<p>Multipara monitor Multi para monitor – ECG, SPO2, NIBP (Non-invasive BP and temperature) at the head endShould have TFT/LCD display with at least 10.4 inches with 4 wave forms and numeric display simultaneously. The waveforms should be user selectable. - Should be compact & portable with carrying handle. - Monitor should have in built Lithium-ion type battery for 4 Hrs continuous operations in case of mains failure. - Should have keys for quick access to main functions. - Should be able to monitor ECG, SpO2, NIBP, Respiration Rate, ET/CO2 (upgradable) & Temperature for adult, pediatric and neonatal patients. - 3 or 5 Lead ECG monitoring with lethal arrhythmia recognition capability and ST analysis. Respiration & Apnea alarm. - Manual, Auto and STAT mode for NIBP monitoring and ranges should be 20 to 230 mmHg. - Pulse-Oxymeter (SpO2) with Plethysmograph & Pulse strength indicator with variable pitch with change in SpO2 - Upgradable to Side-stream Capnography with display of CO2 wave form & digital values (ETCO2, FICO2, RR). - Should have separate volume control for beep sound for QRS and alarm sound. - The display setting should have at least 4 user defined setups variable as per applications for flexible use of the monitor in various clinical environments. - Monitor should have networking options - Should have separate volume control for beep sound for QRS and alarm sound. - Should provide following accessories</p>	<p>Should have safety certificate from a competent authority European CE or FDA (US) approved product. Copy of the certificate/test report shall be attached.Upgradable to Side -stream/Microstream/Main stream Capnography with display of CO2 waveform & digital values (ETCO2,FICO2,RR)</p>
30	Normal Delivery Instrument Set		No change

31	OT lights ceiling	<p>OT Lights (shadow less ceiling mount twin dome)</p> <ul style="list-style-type: none"> - The OT Lights should consist of the following components: - BASIC EQUIPMENT: Ceiling Mounted Shadow less Operation Theatre LED Lights with Twin Domes on a Single Mount - STANDARD ACCESSORIES: Detachable sterilisable focusing handles (2 sets) 1.4. - OPTIONAL ACCESSORIES (Cost to be quoted separately for each item in the price bid) - Video camera mount. - Online Uninterrupted Power Supply (Online UPS) of a suitable kVA with a backup time of at least 2 hours. - Spare sterilisable focusing handles. - Dual light heads (domes) each with intensity of at least 100,000 lux at 1m. - Colour temperature in the range 4000 to 4500K. - Colour Rendition Index at least 93%. - 360 deg rotations at each pivot axis and should be stable in any position. - Light field diameter should adjustable over a minimum range of 19 cm to 30 cm at 1m. 2.6. Working distance of light beam 70 cm to 140 cm for each dome. Light field diameter should be constant over this range. - Light intensity should be adjustable over a range of at least 30% to 100%. - The bulb should be of LED and must be of a single color. : Should have adjustable focus system that can be adjusted with a sterilizable and removable handle. - LED's must have a single color. - Should be upgradeable to install a video camera mount. - Power Requirements: Voltage 220 + 20 volts & frequency 50Hz. - The equipment should be of international standards like European CE, USFDA, BIS, or DCGI etc. - Power Supply - Power input to be 220-240VAC, 50Hz fitted with Indian plug 	<p>OT Lights (shadow less ceiling mount twin dome)</p> <ul style="list-style-type: none"> - The OT Lights should consist of the following components: - BASIC EQUIPMENT: Ceiling Mounted Shadow less Operation Theatre LED Lights with Twin Domes on a Single Mount - STANDARD ACCESSORIES: Detachable sterilisable focusing handles (2 sets) 1.4. - OPTIONAL ACCESSORIES (Cost to be quoted separately for each item in the price bid) - Video camera mount. - Online Uninterrupted Power Supply (Online UPS meeting ISI Specifications.) of a suitable kVA with a backup time of at least 2 hours. Required to be supplied with equipment. - Spare sterilisable focusing handles. - Dual light heads (domes) each with intensity of at least 100,000 lux at 1m. - Colour temperature in the range 4000 to 4500K. - Colour Rendition Index at least 93%. - 360 deg rotations at each pivot axis and should be stable in any position. - Light field diameter should adjustable over a minimum range of 19 cm to 30 cm at 1m. 2.6. Working distance of light beam 70 cm to 140cm for each dome. Light field diameter should be constant over this range. - Light intensity should be adjustable over a range of at least 30% to 100%. - The bulb should be of LED and must be of a single color. : Should have adjustable focus system that can be adjusted with a sterilizable and removable handle. - LED's must have a single color. - Should be upgradeable to install a video camera mount. - Power Requirements: Voltage 220 + 20 volts & frequency 50Hz. The equipment should be of international standards like European CE, USFDA, - Power Supply- Power input to be 220-240VAC, 50Hz fitted with Indian plug - In-built rechargeable battery back-up that is concealed in the above unit and recharges automatically when connected to AC mains. - Standards, Safety and Training- Should be US FDA or European CE approved product. - Shall meet the safety requirements as per IEC 60601-2-27:1994—Medical electrical equipment—Part 2 or equivalent particular
			<p>Continued for OT light ceiling -requirements for the safety of electrocardiographic monitoring equipment.</p> <ul style="list-style-type: none"> - Manufacturer/Supplier should have ISO certification for quality standards. - The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual. - Back to C53 warranty to be taken by the supplier from the principal to supply spares for a minimum period 10 years. - Documentation- User Manual in English- Service manual in English- Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. - The job description of the hospital technician and company service engineer should be clearly spelt out. - Warranty- The Equipment including all accessories including bought out items should be under WARRANTY for a period of 3 years after successful commissioning. - All essential spare parts should be made available with the local service centre during the WARRANTY period and all steps should be taken for immediate servicing to prevent down time. - Comprehensive maintenance contract rates for 3 YEARS after warranty must be quoted and these would be taken into consideration while comparing price bids. A copy of service manual should be available with the local service centre. - Should have safety certificate from a competent authority European CE or FDA (US) approved product. - Complies with Medical Device Directive 93/42/EEC, class risk IIa or equivalent. Manufacturer's quality management system complies with ISO 13485. - Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required. - Warranty: 3 years Warranty and 3 years CMC
32	Oxygen Hood (Neonatal or Infant Size, Unbreakable)	<p>Oxygen Hood (Neonatal or Infant Size, Unbreakable)</p> <p>Oxygen Hood Paediatric</p> <ul style="list-style-type: none"> - Transparent Acrylic for easy visibility - Neck Port adjustment to minimize the wastage of oxygen - Two side port to access procedures easily - Oxygen inlet Port - O2 cell Port/temperature port - Various size for Pediatric /Infant/Neonatal - Transparent Polycarbonate unbreakable single molded - Silicon rubber Neck Port adjustment to minimize the wastage of oxygen - Silicon rubber Neck port adjustment ensures can be used Neonate/Infant/Pediatric patients - Oxygen inlet Port - O2 cell Port/temperature port - Overall Hood dimensions: <ul style="list-style-type: none"> o Small (0301) : 7.0" L x 7.0" W x 5.4" H o Medium (0300) : 7.0" L x 7.0" W x 5.4" H o Large (0305) : 8.0" L x 8.3" W x 6.9" H o Large/Wide Neck (0305W) : 8.0" L x 8.3" W x 6.9" H o Extra Large (0313) : 13.0" L x 10.4" W x 8.5" H - Neck opening dimensions: <ul style="list-style-type: none"> o Small (0301) : 2.5" W x 1.8" H o Medium (0300) : 3.9" W x 2.5" H o Large (0305) : 5.0" W x 3.9" H o Large/Wide Neck (0305W) : 5.0" W x 2.9" H o Extra Large (0313) : 6.3" W x 5.0" H 	<p>Added:# Made of round seamless transparent imported PolyCarbonate Material.</p> <ul style="list-style-type: none"> # Brass nozzle for inlet oxygen. # Humidification chamber to release suffocation. # Port hole for easy access to face # Neck height adjustment facility.

33	Patient Stool	<p>Patient Stool Bed-side stool</p> <ul style="list-style-type: none"> - Frame Work Constructed With MS Steel. - Mounted on PVC Rubber Stumps. - Size: - 300 x 300 x 750 mm Pre-treated and epoxy powder coated finishing 	<p>Patient Stool Bed-side stool</p> <ul style="list-style-type: none"> - Frame Work Constructed With MS Steel. Framework of MS press bent 25mm x 25 mm x 14 g angles and C channels riveted to angles made from 14 G MS CRCA Sheet - Mounted on PVC Rubber Stumps. Legs fitted with rubber angle shoes - Size: - 300 x 300 x min 510 mm H approx 300 mm square 18 g double bent top of MS ,height 510mm Pre-treated and epoxy powder coated finishing All MS parts are 8 tank pretreated & powder coated & SS parts finished with Matt polish CE statement of compliance from CE notified body or its local Supporting affiliate
34	Sims Vaginal Speculum SS		No change
35	Servo Control radiant warmer with oxygen provision	<p>It should be microprocessor based servo controlled unit that will allow at least two operation modes – servo (automatic) and manual mode.</p> <ul style="list-style-type: none"> - The radiant warmer should have a heating element with power consumption of 80 Watts or less - It should have cal rod (tubular) / quartz / non-ceramic infrared heating element with parabolic stainless steel reflector for uniform radiation of heat waves to all corners of the basinet. Heater should be protected by a metal grid to prevent shock hazards. - The +C57 heater box/ head should be either of swivel type and it must rotate to ±90° from its axis or fixed type head provided it allows X-Ray+ +C50 from top. - It should have LED display (at least 1”) for showing skin temperature in manual mode and set and skin temperatures in servo mode. - Temperature display should be bright, numerical. The unit may have a rechargeable battery backup for display of temperatures & alarm during power failure (Optional).6. It should have an adjustable light source (halogen /LED) for observation of the baby. - The basinet comprises of foldable transparent acrylic side panels of minimum 6 mm in thickness and can be swivelled easily for cleaning and procedures. - Basinet should not be fixed with the warmer; if it is fixed then it should be detachable easily for cleaning purposes. Both should move on lockable wheels. - It must have one fixed transparent acrylic sheet below the mattress for under surface phototherapy and an additional acrylic tray with basinet for positioning the X-ray cassette. - The unit should have facility for inclination in both directions (trendelenburg and reverse trendelenburg) minimum up to 12° - Stitch-less mattress should be supplied with a foam density of 21-25 kg/m3 with at least 1inch in thickness. - Mattress cover should be made of fire retardant material. - Mattress should be waterproof and easily washable. It should be resistant to cleaning with chlorine based solution. - The unit should be supplied with 2 (two) drawers and 1 (one) IV stand. - The minimum diameter of IV stand (stainless steel) should be 2.5 cm with 4 pegs (stainless steel) for hanging IV fluids. 	<p>No change</p> <p>It should be microprocessor based servo controlled unit that will allow at least two operation modes – servo (automatic) and manual mode.</p> <ul style="list-style-type: none"> - The radiant warmer should have a heating element with power consumption of 600 Watts or less - It should have cal rod (tubular) / quartz / non-ceramic infrared heating element with parabolic rust free reflector for uniform radiation of heat waves to all corners of the basinet. Heater should be protected by a metal grid to prevent shock hazards. - The +C57 heater box/ head should be either of swivel type and it must rotate to ±90° from its axis or fixed type head provided it allows X-Ray+ +C50 from top. - It should have LED display (at least 1”) for showing skin temperature in manual mode and set and skin temperatures in servo mode. - Temperature display should be bright, numerical. The unit may have a rechargeable battery backup for display of temperatures & alarm during power failure (Optional).6. It should have an adjustable light source (halogen /LED) for observation of the baby. - The basinet comprises of foldable transparent acrylic side panels of minimum 6 mm in thickness and can be swivelled easily for cleaning and procedures. - Basinet should not be fixed with the warmer; if it is fixed then it should be detachable easily for cleaning purposes. Both should move on lockable wheels. - It must have one fixed transparent acrylic sheet below the mattress for under surface phototherapy and an additional acrylic tray with basinet for positioning the X-ray cassette.
			<p>Continued--Continued for Servo Control radiant warmer with O2:- The unit should have facility for inclination in both directions (trendelenburg and reverse trendelenburg) minimum up to C65 Stitch-less mattress should be supplied with a foam density of 21-25 kg/m3 with at least 1inch in thickness.</p> <ul style="list-style-type: none"> - Mattress cover should be made of fire retardant material. - Mattress should be waterproof and easily washable. It should be resistant to cleaning with chlorine based solution. - The unit should be supplied with 2 (two) drawers and 1 (one) IV stand. - The minimum diameter of IV stand (stainless steel) should be 2.5 cm with 4 pegs (stainless steel) for hanging IV fluids. - Cleaning and maintenance of Radiant Warmer and Basinet should be user friendly. - The complete unit including the heating element should be European CE 93/42 or and FDA – US or UL or BIS certified. Test certificate for the equipment to be submitted with the tender. - Probe length: Not less than 5.5 ft. - Length of basinet : Minimum 680 mm - Width of Basinet : Minimum 50 mm - Working level from the ground upto upper level of the mattress : Minimum 870 mm
36	Spot Light with Stand	<p>Spot Light with stand Spot Light with Stand</p> <ul style="list-style-type: none"> - LED light on stand - Power Consumption 40 Watt - Stand with tilting facility - This equipment should be supplied with all necessary fixation accessories/Spares <p>Standards European CE; EC Marked US FDA; ISO certification</p>	<p>Spot Light with stand Spot Light with Stand</p> <ul style="list-style-type: none"> - LED light on stand - Power Consumption not more than 40 Watt - Stand with tilting facility - This equipment should be supplied with all necessary fixation accessories/Spares <p>Standards The equipment should be supplied with all necessary fixation accessories/spares. Standards : European CE/ EC MARKED/US FDA and ISO CERTIFICATION. Examination light should atleast have 10,000 lux at 1 mtr. Distance.</p> <p>Material of dome should be polycarbonate.</p> <p>Spring loaded, articulated arm. Arm length should be atleast 85cm or more.</p> <p>Dome should have a minimum 270 degree rotation</p>
37	Stethoscope		No change

38	Strecher with stand on wheel	<p>Stretcher with stand on wheel Stretcher trolley</p> <ul style="list-style-type: none"> - Stretcher made of MS steel supported by tubular frame. - Pre-treated trolleys, epoxy powder coated with frame work made using quality steel tubes. - Stretcher trolley mounted on 150mm swiveling castor, two equipped with brakes. - Available with 50 mm PU form mattress. - Two side down fall safety side railing. - Size in mm: 2030 (L) x 560 (W) x 820 (H). - High density foam mattress ILO 48-58(lbs/50sq.) - Thickness- 2"(Inch) - Cover with vinylized nylon cover with Zipper - Cover is antibacterial anti static acid resistant waterproof and meets fire regulation cades 16CFR1633&16CFR/1632 <p>Warranty: 3 years Warranty and 3 years CMC</p>	<p>Stretcher with stand on wheel Stretcher trolley</p> <ul style="list-style-type: none"> - Stretcher made of MS steel supported by tubular frame. Framework of ERW MS tubular welded with vertical upright 31.75 mm OD x 18 G ERW tubes, should be reinforced at bottom with 35 mm OD x 18 g tube for fitting - Pre-treated trolleys, epoxy powder coated with frame work made using quality steel tubes. All MS parts are 8 tank Pretreated & powder coated & SS parts are 304 grade finished with Matt polish - Stretcher trolley mounted on 200 mm dia swivels castors wheels, two with brakes - Rexine covered 50mm thick rubber mattress for stretcher trolley - Two side down fall safety side railing.-Two side swing away type Railing suitable for stretcher on trolley with MS tubular frame - Size in mm: 2030 (L) x 560 (W) x 820 (H).approx. - Rubber foam - 50mm thick rubber mattress PVC rexine covered - 50 mm thick rubber mattress PVC rexine covered, CE statement of compliance from CE notified body or its local supporting affiliate <p>Warranty: 3 years Warranty and 3 years CMC</p>
39	Surgical Electric Diathermy	<p>Surgical Electric Diathermy</p> <ul style="list-style-type: none"> - Real digital output & display by microprocessor multi-purpose electrosurgical unit. - Both monopolar and bipolar function. - Safety circuit secured for patient and operator safety. - Outlets for cutting, coagulation and bipolar coagulation actuated by foot or hand switch - Two tune audible signals represent CUTTING and COAGULATION procedure. - High crest factors provide the T.U.R. - Seven different type of current selected by pushing mode select switch and out puts adjusted by steeples control - Bipolar Coagulation (soft) standard Coagulation Max 99 watts for large tissue coagulation soft coagulation Max, 50 watts for small tissue - coagulation Four Modes of monopolar cutting Macro mode. - Pure cut: 400w a 500 ohms - Blend I : 230w at 300 ohms - Blend II : 180w AT 300 ohms - Blend III : 120w at 300 ohms - Two Modes of Monopolar Coagulation Contact coagulation: 100 w at 300 ohms - Spray coagulation: 80w at 500 ohms - Different Audible Signals. - Different audible signals for cut, coagulation and bipolar coagulation. - Areas of Use General Surgery, Dermatology, Endoscopy, Vascular Surgery, Gynecology, Heat/Thoracic Surgery, ORL/ENT, Pediatric Surgery, Minimally Invasive Surgery (MIS), Neuro Surgery, Plastic Surgery, Orthopedics, Urology, Oral Surgery, Trans Urethral Resection (T.U.R) - Main Frequency 400, 490 KHz+ 10% 400, 500KHz 10% - Standard Accessories - Color coded double pedal footswitch with cable and connector. - Silicone rubber patient cable with detachable connection cable & rubber strap With holes. - Reusable Active electrode handles with set of 04 electrodes & silicone rubber insulated cable. 	<p>As per GOI Specifications Attached for Surgical Electric Diathermy below</p>
40	40	Ventous Extractor	No Change
41	Weighing machine Adult	<p>Weighing machine adult Digital & Analog</p> <ul style="list-style-type: none"> - With height meter or without height meter - Analogue and digital - Capacity: 150 kg - Readability: 100gm - Working temperature: 0°-50° C - Warranty: 3 years Warranty and 3 years CMC 	<p>Weighing machine adult Digital</p> <ul style="list-style-type: none"> - With height meter or without height meter - digital - Capacity: 150 kg - Readability: 100gm - Working temperature: 0°-50° C - Warranty: 3 years Warranty and 3 years CMC, Standards European CE; EC Marked US FDA Note: on order the machine must be certified by Weights and measures by the tenderer without any additional charges.

42	Wheel Chair with hand, foot and neck rest SS	<p>Wheel Chair with hand, foot and neck rest SS</p> <ul style="list-style-type: none"> -Sturdy, heavy duty, with brakes -Foldable foot rest -The foot rest should be capable of swinging about its own axis, so that it does not obstruct while moving in or out from the wheelchair. -In raised position the foot rest should be at an angle of 120°. -8" heavy duty wheel -With mega wheel unbreakable -With cushion padded hand rest -Optional: Breaking provided leg removable & adjustable arms removable Dimensions: <ul style="list-style-type: none"> - Overall length : 1050mm - Overall width : 680mm - Overall height: 910mm - Seat height from floor at the front : 500mm - Seat height from floor at the back : 450mm - Arm height from seat: 225mm - Seat length: 430mm - Seat width between armrest pipes : 430mm - Back height :380mm - Back width at seat level: 430 mm - Back width at the top: 430mm - Clearance of foot rest to floor : 90- 200 mm - Back clearance of frame to floor 100mm + 10 - Mean rim diameter 500mm - Wheel chair should be corrosion resistant - Materials and finishes should be non-toxic. All surfaces of the wheel chair should be capable of disinfection and cleaning by normal hospital methods. - The wheelchair should be subjected to a load of min. 75 kg. - The chair should move smoothly without any wobbling, rocking or rattling. 	<ul style="list-style-type: none"> -Sturdy, heavy duty, with brakes-Sturdy, rigid, heavy duty & non folding wheel with cushioned seat & back of 2" thick PU foam mattress covered with rexine and two 200mm dia strong swiveling castor wheels provided in the front - Foldable foot rest-Two foldable cast aluminum foot rest - The foot rest should be capable of swinging about its own axis, so that it does not obstruct while moving in or out from the wheelchair.-Two foldable cast aluminum foot rest and two 200 mm dia strong swiveling castor wheels provided in the front. - In raised position the foot rest should be at an angle of 90 degree -two 200 mm dia strong swiveling castor -With mega wheel unbreakable-two solid rubber tyred bicycle wheels with brakes & self propelling SS hoops -With cushion padded hand rest - Optional: Breaking provided leg removable & adjustable arms removable-Two solid rubber tyred bicycle wheels with brake - Minimum Dimensions: <ul style="list-style-type: none"> - Overall length : 1050mm - Overall width : 670mm - Overall height: 910mm - Seat height from floor at the front : 500mm - Seat height from floor at the back : 450mm - Arm height from seat: 225mm - Seat length: 430mm - Seat width between armrest pipes : 430mm - Back height :380mm - Back width at seat level: 430 mm - Back width at the top: 430mm
			<p>continued for wheel chair specs-- Clearance of foot rest to floor : 90- 200 mm</p> <ul style="list-style-type: none"> - Back clearance of frame to floor 100mm + 10 - Mean rim diameter 500mm - Wheel chair should be corrosion resistant.All MS parts are passed through 8 tank pretreatment and should be Epoxy powder coated - Materials and finishes should be non-toxic. All surfaces of the wheel chair should be capable of disinfection and cleaning by normal hospital methods. - The wheelchair should be subjected to a load of min. 100 kg. - The chair should move smoothly without any wobbling, rocking or rattling. - It should be ISI certified./CE certified with CE statement of compliance from CE notified body or its local supporting affiliate - Warranty: 3 years Warranty and 3 years CMC
43	USG machine	<p>Colour Doppler Ultrasound System System should have following Application with extensive Calculation software package</p> <ul style="list-style-type: none"> -Obstetrics and Gynaecology -Abdomen -Vascular -Endocavitary application-Transvaginal <p>System should have following modes</p> <ul style="list-style-type: none"> - 2-D Modes - M Modes - Pulse Wave Mode - Colour Flow Mode - Continuous Wave Mode - Colour/Power Doppler Imaging - Tissue Harmonic Imaging - Duplex and Triplex mode simultaneity (all three modes 2D, Colour & Doppler Modes simultaneously). - Anatomical M Mode - Tissue Doppler Imaging. <p>Broad Bandwidth Transducers</p> <ul style="list-style-type: none"> - Convex Array Transducer-Frequency 2-5 MHz - Intracavitary Transducer – Frequency 4-10 MHz - Linear Transducer 5-12 MHz - Scan depth should be 28cm or more for convex transducer <p>System should have Dual &/Quad split display</p> <ul style="list-style-type: none"> - Duplex for simultaneous B mode & Spectral Doppler <p>Facility of Full screen imaging</p> <ul style="list-style-type: none"> - The system should support real time acquisition and display of two image planes simultaneously with colour. - Facility for Zoom(real time and frozen image) - One touch image optimization and automatic real time Doppler tracing. High resolution ,flicker free,antiglare ,LCD/LED medical grade flat panel display of 15" or more,with maximum viewing angle. - Alpha numeric key board with track ball - Complete package for measurement & calculation for all applications mentioned at Sr no 1, with digital callipers for 	<p>GOI Specifications as per attachment for USG machine below</p>

44	CTG machine	<p>CTG machine</p> <ul style="list-style-type: none"> • More than 7" wide TFT- color LCD/LED screen for Fetal Heart Rate, Uterine contraction & fetal movement. • LCD Screen should be tiltable & rotatable. • It should have display modes of Trend mode, Number mode & Graph mode. • It should have alarm functions in all movement. • It should have facility to increase / decrease / mute alarm sounds It should have Automatic track & hold facility. • It should have high sensitivity less than 1 MHz FHR upper limit should be 130 - 240 BPM or more & lower limit should be 30 -150 BPM or lower. • It should have Foetal Heart Rate & Uterine pressure. • It should have automatic and manual foetal movement detection. • It should have printer in built thermal recorder. • It should have battery backup. • It should have a built-in memory for 450hrs to save patient graph data. • It should have Twin Foetal Monitoring system FHR & UC probes should have a slot guided connecting mechanism to the main unit. • It should have print speed of 1, 2, 3 cm/min. • It should have automatic paper feeding function. • Should have safety certificate from a competent authority CE or FDA (US) approved product. • Complies with Medical Device Directive 93/42/EEC, class risk IIa or equivalent. Manufacturer's quality management system complies with ISO 13485. • Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required. 	<p>CTG Machine</p> <ul style="list-style-type: none"> • • More than 7" wide TFT- color LCDor LED screen for Fetal Heart Rate, Uterine contraction & fetal movement. • LCD Screen should be tiltable & rotatable. • It should have display modes of Trend mode, Number mode & Graph mode. • It should have alarm functions in all movement. • It should have facility to increase / decrease / mute alarm sounds It should have Automatic track & hold facility. • It should have high sensitivity less than 1 MHz FHR upper limit should be 130 - 240 BPM or more & lower limit should be 30 -150 BPM or lower. • It should have Foetal Heart Rate & Uterine pressure. • It should have automatic and manual foetal movement detection. • It should have printer • It should have battery backup. • It should have a built-in memory-to save patient graph data. • It should have automatic paper feeding function. • Should have safety certificate from a competent authority CE or FDA (US) approved product. • Complies with Medical Device Directive 93/42/EEC, class risk IIa or equivalent. Manufacturer's quality management system complies with ISO 13485. • Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required.
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Please Note : In List 1 MCH equipments 2) For Family planning item no 23 i.e. Hydraulic OT Table major is increased in quantity for 54 numbers as per Family planning requirement for ROP 2015 under NHM