

Pre-bid query resolution					
Tender No.47/05 Clinical Department					
Corrigendum-2/04/12/2015					
S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
1	1	1	Advanced Anaesthesia Machine	Anaesthesia apparatus with circle absorber and fluotec vaporizers (with provision for selecta tec back bar) :	Replaced as: 3 Gas (O2, N2O and Air) Anaesthesia apparatus with Compact ,Autoclavable ,Heated Breathing System for low flow Anesthesia delivery with selectatec vaporisors.
				-should have provision for spare cylinder with bourdon pressure	Replaced as: Should have Yoke for O2 and N2O for Spare Cylinder.
				-must have vaporizer for halothane / ISO flurane / sevo flurane.	Must be quoted with Halothane and ISO Flurane Vaporizers.
				-should have provision for two inlets for two oxygen and two inlets	Should have Provision for Central Supply connection for O2 ,N2O and Air for 3 Gas System.
				for two nitrous oxide cylinders with pin index system. A type.	Should have Provision for O2 and N2O Yoke (1 each) to connect Spare Cylinders.
				Anaesthesia ventilator.	Anaesthesia Ventilator: Should have inbuilt ventilator with 7 Inch Colour TFT , O2 Monitoring , Pressure ,Flow ,Volume waveform monitoring.
				- should have a capacity of 1.5kg or more	Replaced as: Anesthesia Ventilator should have Volume and Pressure Controlled Ventilation Modes.
				Provision for Two 60 psi Oxygen source built in the Machine.	This is deleted.
					Added: should have US FDA/ European CE approval.All Component of Machine like Ventilator ,Vaporizer and Monitor (if any) should be of same make.It should confirm to requirement for safety and essential performance of anaesthesia system
2	1	12	Anaesthesia Workstation	Various queries on the specifications.	Complete technical specification of item 12 schedule no. 1 "Anaesthesia Workstation" have been revised and new specifications are given at Annexure 2. Please quote as per new specifications.
				The Defibrillator should be Biphasic technology, having energy selection up to 200 joules.	Replaced as: The Defibrillator should be Biphasic technology, having energy selection up to 200 joules or more..
				The machine should have ECG waveform display on bright high resolution display.	should have at least 6 inch display screen
				(d) 12 lead	Replaced as: (d) 12 lead ECG with 10 lead ECG cable
				(c) Resuable airway adaptor to be used with ETCO2 mainstream sensor & cable - 1 nos	Replaced as: (c) Resuable airway adaptor to be used with ETCO2 sensor & cable - 1 nos
				The unit should be U.S FDA approved.	should have European CE/ US FDA approval

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3	1	25	Defibrillator	The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.	Equipment quoted should be of latest model. Rest deleted.
				The machine should have ECG waveform display on bright high resolution display	should have at least 6 inch display screen
				The unit should be U.S FDA approved	should have US FDA/ EUROPEAN CE approval
				The Machine should be compact, portable with inbuilt rechargeable battery. The Machine should not be more than 7 Kgs with Battery and Paddles.	Replaced as: The Machine should be compact, portable with inbuilt rechargeable battery.
				The unit should be U.S. FDA approved.	should have US FDA/ EUROPEAN CE approval
				S.L.A. Battery – 1 No.	Replaced as: Li-ion battery
				Multi-function defibrillator & monitoring pads/gel sheets – 100 no's	Replaced as: Multi-function defibrillator & monitoring pads/gel sheets – 10 nos.
				Original Tendered Quantity:2 nos.	Added: Should have paddle contact indicator. Tendered quantity is revised to 14 nos. E-procurement system doesn't allow to revise the price sheet during pre-bid, hence bidders are requested to keep the revised quantity in mind while quoting the price.
4	5	2	Defibrillator with monitor		Item is deleted as specifications are same as item no. 25 of schedule no. 1
				Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output	Replaced as: Standard parameters for all 12 modular monitors should be with atleast 12 lead ECG with 10 lead cable, 2 IBP, NIBP, SPO2, and dual Temperature. It should be truly modular design and not a PC based system. All modules should be interchangeable among all monitors.
				Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current	Replaced as: Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis etc. The same system should address a broad range of patients, from neonates to adults and should be HL7 & HIS compatible.
				Clear large screen, (19" and above) medical grade color TFT display suitable for electronic data management and display of more waveforms and parameters.	No change.

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			Multi Channel Monitor with	Capability to have simultaneous display of ≥ 6 parameters including 4 invasive pressures measurements, respiration, temperature, oxygen saturation monitoring capnography, cardiac output with minimum 20 channels to display the more waveforms.	Minimum 10 channels or above should be there in each monitor.
				Touch screen interface for quick access and configuration Multiple preset menu and customizable menus Configurable arrhythmia analysis tool, ST-T monitoring capabilities/mapping facility and adjustable alarms.	Replaced as: Touch screen interface for quick access and configuration Multiple preset menu and customizable menus Configurable arrhythmia analysis tool, ST-T monitoring facility and adjustable alarms.
				Configurable Arrhythmia Analysis tool ST-T Monitoring Capabilities/Mapping facility and adjustable alarms..	Replaced as: Configurable Arrhythmia Analysis tool ST-T Monitoring Capabilities and adjustable alarms.
				Send print commands to the central station from each monitor in various formats. Wireless monitoring of the patient i.e., patient should be able to move around freely and still monitoring ECG & oxygen saturation.	Replaced as: Send print commands to the central station from each monitor in various formats. Wireless Communication between patient monitor and Central Station.
				Wireless Monitoring of the Patient i.e. Patient should be able to move around freely and still monitoring ECG & Oxygen Saturation,,	This point is deleted
				All medical telemetry has to be operated on latest recommended Medical grade transmission frequency. It should be possible to monitor the ECG (3/5/12L) and SpO2 from any remote location in or out of the hospital. Either from an individual monitor or through central station. Software/hardware needed for remote access has to be	This point is deleted
				Each monitor to be provided with all standard modules and accessories. These are ECG (3/5/12L), Respiration, NIBP, 4IBP, oxygen saturation, Dual temperature should be standard. One ETCO2 module between every two monitors and one CO with 4 IBP module between 4 monitors. Modular upgrade to EEG, PiCCO, BISx, NMT, Transcutaneous ETCO2, ETC.	Replaced as: 12 No monitors to be provided with all standard parameters and accessories.
			SpO2 Masimo set finger sensor with extension cable – 1 no per monitor.	Replaced as: SpO2 Masimo / Nellcore or Equivent set finger sensor with extension cable – 1 no per monitor.	

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5	1	20	Central station (Set of 12 Monitors with 1 Central Station)	<p>Etco2 module - one ETCO2 module between every two monitors. one CO with 4IBP module between 4monitors.</p>	<p>In a set of 12 monitors and 1 CNS, following should be supplied: Etco2 module - 3 nos. ETCO2 modules with accessories . CO Module - 2 nos. CO module with accessories and Transducers. Diagnostic EEG Module: 1 no. with accessories PiCCO module: 1 no. with accessories; BIS Module: 1 no. with accessories; NMT Module: 4 nos. with accessories</p>
				<p>Central station: 12 bed central station with 19" Dual display, TFT touchscreen and wireless keyboard mouse. Upgradeable to 32 monitors at additional cost and upgrades. Alarms should also be configurable from/at the central station. It should be possible to delete/change/stop an event recognition that is an artifact or erroneous/not needed. A high end black and white laser printer should be provided.</p>	<p>Replaced as: Central station: 12 bed central station with 19" Dual display, TFT and wireless keyboard mouse. Upgradeable to 32 monitors at No additional cost and upgrades. Alarms should also be configurable from/at the central station. It should be possible to delete/change/stop an event recognition that is an artifact or erroneous/not needed. A high end black and white laser printer should be provided.</p>
				Dual 19" touchscreen.	Replaced as: Dual 19" color display
				Wireless keyboard mouse	No change.
				UPS with 15 min back up.	Replaced as: UPS with 30 min. back up of CNS.
				Colour network printer.Networking cost, wired switch, rack for switch, etc.	No change.
				All the patient monitors including parametrs and features should be US FDA approved.	should have European CE/ US FDA approval
				Interface with ICU ventilator of select device to see waveforms,digital values, loops and trends of ventilator on patient monitor	Should supply 3 nos. interface module for connecting ICU ventilator and IABP of select make.
				Web browsing facility to review each networked monitors & select ventilator data (waveforms, loops and digital values) through hospital LAN via office PC in Hospital LAN Network and/or through secured web login facility from remote location as standard.	No change
				The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.	Quoted model should be latest one. Rest deleted.

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				<p>ADDITIONAL INFORMATION:-The bidder has to quote price for set of 12 monitors with 1 central station.</p> <p>Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply</p> <p>Scope of Supply - IBP reusable cable for 4 IBP and 20 pcs disposable transducers per monitor.</p>	<p>Additioanl Information: The Bidder has to quote Price for 12 No Basic standard modular Monitors ,1 Central Station along with Modules & Accessroies asked in Specification. In addition to this, bidders are requested to quote prices of all modules separately in a sealed envelope to be put in Physical bid to enable TIA to purchase module(s) at a later date.</p> <p>Remote Central Monitoring viewing facility through internet facility is required. Rest is deleted.</p> <p>Scope of Supply - IBP reusable cable for 2 IBP and 10 pcs disposable transducers per monitor. Other accessories already defined.</p>
6	1	19	Medical Mobile X-ray Machine for ICU	<p>70-150 mA machine with multiple flexible arms for easy maneuverability.</p> <p>Combined X Ray generator. Single focus. Bridge rectification. Should have all advanced features required for use in ICU.</p> <p>Should be upgradeable to a higher version. Remote control device (control range>5m)</p> <p>Original Tendered Quantity:5 nos.</p>	<p>The technical Specification of Schedule 1 item no. 19 , “Medical mobile x-ray machine ” should be read as given in Annexure 2</p> <p>Tendered quantity is revised to 7nos. E-procurement system doesn't allow to revise the price sheet during pre-bid, hence bidders are requested to keep the revised quantity in mind while quoting the price.</p>
7	1	30	Bedside X-Ray		This item is deleted - same as item no. 19 of schedule no. 1 i.e. "Medical mobile x-ray machine for icu". Revised technical specifications are attached in Annexure-2
			Vessel sealing	<p>Shears must be possible to have a multiple plane cutting and coagulating</p> <p>Possibility to detach the Transducer from the patient cable to better maintenance</p> <p>Should be compatible with only 5mm instruments</p> <p>The power setting should be adjustable in 0.5 setting</p>	<p>Shears must be capable of dissecting, cutting and coagulating vessels upto 7 mm.</p> <p>Transducer for Lap and open surgery</p> <p>Should be compatible with 5mm instruments</p> <p>Power should be adjustable from 1-5</p>

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8	2	18	& ultrasonic dissector system	The ultrasonic dissector should have following instrument to handle following open and such as Shears of 5mm thickness and shaft length 291 mm-1no	Shears of 5mm thickness and shaft length 180 mm- 390 mm
				Shears of 5mm thickness and shaft length 380mm-1no	Shears of 5mm thickness and shaft length 320mm-380mm
				Shears of 5mm thickness and shaft length 157mm-1no	Shears of 5mm thickness and shaft length 90mm-170mm
				Ball probe-1n0	Ball probe
				Hook probe of 5 mm thickness and shaft length 350 mm-1no	Hook probe of 5 mm thickness and shaft length 300mm - 350mm
9	1	3	C-Pap Unit	Digital display for pressure and time parameters	It should have colour LCD/TFT display.
				Ramps time should be unlimited	Ramp time is basically time taken by machine to achieve the set pressure. It should be maximum 45 min or off. Ramp time-make it 0 to 45 min.
				With slip apnea detection alarm and with humidifier	Rather than slip apnea it would be sleep apnea, it may be typo error.
10	1	4	Bi-Pap Unit	Automatic bipap unit for pre & post operative treatment to assist breathing mechanism & gas exchange for paediatric & adult patients and also sleep apnea	Should be bipap unit, with modes of Cpap, S, ST, T, PC and volume assure pressure support with apnea backup rate upto 50 breaths/min. Should be able to operate on Low pressure oxygen.
				Backup battery for one hour	It should provide with inbuilt battery backup of two hours
				Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply	Monitor should be HL7 compatible. Rest deleted.
				Clear large screen, (19" and above) medical grade color TFT display suitable for electronic data management and display of more waveforms and parameters.	No change
				Capability to have simultaneous display of >6 parameters (including 4 invasive pressures measurements, respiration temperature, oxygen saturation monitoring capnography, cardiac output with minimum 20 channels to display the more waveforms.	Minimum 10 channels or above should be there in the monitor.
				Wireless monitoring of the patient i.e., patient should be able to move around freely and still monitoring ECG & oxygen saturation.	Deleted

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11	1	21	Bedside Monitor for ICU	Each monitor to be provided with all standard modules and accessories. These are ECG (3/5/12L), Respiration, NIBP, 4 IBP, oxygen saturation, Dual temperature should be standard. One ETCO2 module between every two monitors and one CO with 4 IBP module between 4 monitors. Modular upgrade to EEG, PiCCO, BISx, NMT, Transcutaneous ETCO2, ETC	Replaced as: Standard parameters for all 12 modular monitors should be with atleast 12 lead ECG with 10 lead cable, 2 IBP, NIBP, SPO2, and dual Temperature. It should be truly modular design and not a PC based system. All modules should be interchangeable among all monitors. Monitor should be upgradable to EtCO2, CO, EEG, NMT and BIS.
				All the patient monitors including parametrs and features should be US FDA approved.	Should be European CE/ USFAD approved product.
				Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output 1. Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply	Deleted.
				Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output	Deleted
				All medical telemetry has to be operated on latest recommended Medical grade transmission frequency. It should be possible to monitor the ECG (3/5/12L) and SpO2 from any remote location in or out of the hospital. Either from an individual monitor or through central station. Software/hardware needed for remote access has to be provided.	Deleted
				Scope of Supply - IBP reusable cable for 4 IBP and 20 pcs disposable transducers per monitor.	Scope of Supply - IBP reusable cable for 2 IBP and 10 pcs disposable transducers, 10 lead ECG cable, Adult Pediatric & neonatal SpO2 sensors (1 each), Adult & Pediatric NIBP cuff, Rectal & skin temp. probe specification.
				Central station: 12 bed central station with 19" Dual display, TFT touchscreen and wireless keyboard mouse. Upgradeable to 32 monitors at additional cost and upgrades. Alarms should also be configurable from/at the central station. It should be possible to	Deleted.
				Original Tendered Quantity:12 nos.	Tendered quantity is revised to 20 nos. E-procurement system doesn't allow to revise the price sheet during pre-bid, hence bidders are requested to keep the revised quantity in mind while quoting the price.

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12	1	22	Monitor for HDU		This item is deleted. This item is same as Schedule 1, item no. 21.
13	3	4	Operating Microscope with viewing tube & endo Camera with Monitor	Operating Microscope with viewing tube & endo camera with monitor zoom. Motorised with foot control objective lenses 200, 300, 400 with side tube and camera (CCTV) with Monitor	Replaced as- Operating Microscope with side viewing tube & integrated endo camera with motorized zoom. Motorised with foot control objective lenses 200, 300, 400 with side tube and with Monitor. Added- Should be US FDA approved.
14	3	5	Operating Microscope wall mounted for OPD with Zoom	OPD Operating Microscope is wall mounted and Different Objective lenses are required. Therefore, 'Motorised Zoom with Foot Control' is redundant and should be deleted. As the specifications are overlapping.	Replaced as: Operating Microscope wall mounted for OPD with Zoom and with integrated HD Camera. Objective lenses 200, 300, 400 with side tube and with Monitor 17". Product should be US FDA approved.
15	3	38	ENT Operating Microscope for Minor Operation Theatre	Operating Microscope with viewing tube & endo camera with monitor zoom. Motorised with foot control objective lenses 200, 300, 400 with side tube and camera (CCTV) with Monitor	Replaced as- Operating Microscope with side viewing tube & integrated endo camera with motorized zoom. Motorised with foot control objective lenses 200, 300, 400 with side tube and with Monitor. Product should be US FDA approved.
16	3	39	Temporal Bone lab Microscope	Operating Microscope wall mounted for OPD Zoom. Motorised with foot control objective lenses 200, 300, 400 with side tube and camera (CCTV)	Replaced as: Operating Microscope wall mounted for OPD Zoom. objective lenses 200, 300, 400 with side tube and integrated HD camera.
				Scope of Supply	Added: Monitor should also be supplied along with other standard supply and as asked in the specifications.
17	3	22	Electric cautery with all accessories		This item is deleted.
18	3	3	ENT treatment unit with patient chair and with work station	Should be equipped with , Large illuminated LCD Display, Menu Systems and digital adjustment of equipment, recording and editing software, PC Link and arrangement of coupling PC with Controls.	Replaced as: Should be equipped with , Large LCD monitor connected to an external PC managing Camera System with recording and editing software.
				Suction use counter which should have – Suction hand pieces with tubing capacity 70 Ltrs per minute vacuum 0.80 bar, receptacle with overflow valve for suction system, suction tip 1 mm, 1.5 mm and 2.5 mm	Replaced as: Suction use counter which should have – Suction hand pieces with tubing capacity 60 Ltrs per minute, vacuum 0.85 bar, receptacle with overflow valve for suction system, suction tip 1 mm, 1.5 mm and 2.5 mm.
				Inline water filter with connectors	Replaced as: Inline water filter with connectors: Water purification filter (4 weeks life span) to be connected to the hand piece combined to the autonomous system with 5 litre distilled water tank.
				C mount adopter water proof	Replaced as: C mount adopter
				Cautery Power out put	Replaced as: Cautery Power out put- 80W Cautery which should be European CE/US FDA Certified.

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				6 flat diagnosis program	No change
				7 should be compatible with future development	No change
19	1	2	Anaesthesia Ventilator		This item is Deleted.
20	1	8	Desflurane Vaporisor	<p>Should be agent specific -calibration must be correct</p> <ul style="list-style-type: none"> -pressure compensated -temperature compensated -flow compensated <p>-should have a local technical support</p> <p>- engineers for 24 hours backup</p> <p>Scope of supply</p> <ol style="list-style-type: none"> 1. vaporizer (sevoflurane)- 1 no 2. Key filler - 1 no 3. Manual - 1 no 	<p>Replaced as: Should be agent specific -calibration must be correct</p> <ul style="list-style-type: none"> -pressure compensated -temperature compensated -flow compensated <p>-should have a local technical support</p> <p>-Filling capacity of 300 ml of liquid anesthetic.</p> <ul style="list-style-type: none"> -Range 2 to 18 Vol % -US FDA approved product -Quick Fill type -with Selectatec back bar <p>- engineers for 24 hours backup</p> <p>Scope of supply</p> <ol style="list-style-type: none"> 1. Vaporizer (Desflurane)- 1 no 2. Manual - 1 no
21	3	19	BERA - audiometer		The specification of Schedule no. 3 Item no. 19 “BERA – audiometer” quoted in the tender should be read as given in Annexure 2
22	3	18	OAE screener	In OAE no company will offer 24 hours operating battery life	Replaced as- approx. 3 hours operating battery life
				Should have wireless data transmission facility to laptop by Infrared / Bluetooth technology. A wired connection is always better relied than wireless. it has nothing to do with the patient testing. It is not a common feature. It would restrict the number of participants limiting the competition	Replaced as: Should have wired connection with optional wireless data transmission facility to laptop by Infrared / Bluetooth technology
				Should have frequency range up to 6000 Hz for DPOAE	Replaced as: Should have frequency range up to 10000 Hz for DPOAE
				Frequency Intensity Range : 45 to 70 dB SPL	Replaced as: Frequency Intensity Range : 45 to 90 dB SPL
24	3	20	Impedence audiometer or middle ear analyzer	CE/FDA certification can be asked to ensure quality of products	Added: Product should be European CE/ US FDA approved product.
				Intracavitary Transducer – Frequency 4-10 MHz. It should be 4-9MHz. We'll get higher diagnostic information for broad band frequency transducer with broad field of view and smaller footprint.	Replaced as - 4-9MHz

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25	1	29	Portable Echo Cardiography Machine (ICU Dedicated Ultrasound and Echo Machine)	Scan depth should be 28cm or more for convex transducer. It should be 30 cms. Wide range of scanning depths (transducer dependent) allowing scanning from superficially positioned structures down to deep located anatomical structures.	Replaced as - Scan depth should be 30 cm or more for convex transducer.
				High resolution ,flicker free, antiglare, LCD/LED medical grade flat panel display of 15” or more, with maximum viewing angle. It should be 19” or more.Enough space to display clinical image & large thumbnails facilitating navigation through the study	Replaced as- 19” or more
				Inbuilt hard disk with memory of minimum 500 GB. It should be 320 GB. More than 250 GB will be enough space to store studies & patient data for mid segment ultrasound system	Replaced as - Inbuilt hard disk with memory of more than 250 GB
					Added- Should be upgradable to Real time 3D/4D Imaging on convex and transvaginal probes.It will protect your basic diagnostic information with 3D/4D capability platform for price vs performance value.
					Added- System should be offered with minimum of 60000 digital processed channels, datasheet should be enclosed in technical bid to support no of channels on the system.It will provide newer platform & much more processing power
					Added - should have US FDA approval
				Telescope 10 mm- 0 degree	Replaced as: Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated.connection for fiber optic light cable offset by 90°, USFDA, CE approved.Telescope should have definind length and capability of autoclavable for Sterilization
				Telescope 5 mm-3 0 degree	Replaced as-Forward-Oblique Telescope 30°enlarged view, diameter 5 mm, length 29 cm, autoclavable, fiber optic light transmission incorporated, connection for fiber optic light cable offset by 90°, USFDA, CE approved.Telescope should have definind length and capability of autoclavable for Sterilization
				Specification High speed rod lens system Scratch resistant Adaptability to high intensity Xenon light 300 watts	Replaced as-Specification rod lens system Scratch resistant Adaptability to high intensity Xenon light 300 watts
				Trocar size 5/6mm-Trocar only, with pyramidal tipcannula without valve, with insufflations	Replaced as- 5/6mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.USFDA, CE approved. should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve.

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				Trocar size 10/11mm-Trocar only, with pyramidal tipcannula without valve, with insufflations	Replaced as-10/11 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm. USFDA, CE approved.USFDA, CE approved. should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve.
				Click Line Grasping Forceps, 2X4 teeth, rotating with connector pin for unipolar coagulation, double action jaws	Replaced as-Three part laparoscopic autoclavable Grasping Forcep with ratchet, Tiger Jaws, 2X4 teeth, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button, USFDA, CE approved
				Click line KELLY Dissecting & Grasping Forceps, rotating with connector pin for unipolar cm, double action jaws-	Replaced as-Three part laparoscopic autoclavable KELLY Dissecting and Grasping Forcep, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button, USFDA, CE approved.
				Bipolar Grasping Forceps Maryland dissector curved with fine horizontal serrations double jaw. size 5 mm, length 36 cm	Repalced as-Three part laparoscopic Bipolar Maryland Dissecting & Grasping Forceps with overload tissue protection, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button. USFDA, CE approved. To get clarity in specification
				fiber optic light cable, size 4.8 mm, length 250 cm	Replaced as-Fiber optic light cable, size 4.8 mm, length 300 cm- 1 No.

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26	2	2	Operating Laparoscopy Set	endovision Cemra 3 chip color system power supply : 100-240 VAC, 50-60Hz	Replaced as-Three Chip Camera System Specifications: Digital Three-Chip Medical-Video-Camera – color system PAL, with integrated Image Processing Module. Special Features:- <ul style="list-style-type: none"> • Should be fully compatible to the color systems PAL & NTSC. All the necessary settings required to be done during surgery in the camera should be under sterile area. • Should have the facility of Digital Image Processing by means of an integrated Image Processing Module. Multiple settings allow the user to select the preferred level of image enhancement. • Digital contrast enhancement • Digital anti-moiré/anti-grid filter for use with fiberscopes. • Should have Parfocal Optical Zoom lens system. • Should have the additional facility of Electronic 2x zoom, selectable in 4 steps. • Integrated Still Image function. • Digital Video output DV. For direct hook up with Lap top • Should have the Auto Exposure System for consistent illumination level. • High horizontal image resolution of more than 750 lines, therefore even the finest variations in tissue structures are perceivable on a high-resolution monitor. • Automatic white balance with memory function for two settings. • Multilingual menu system. • Character generator • Composite, S-VHS and RGB compatibility • World power supply • 2 programmable function keys on the camera head for control of camera functions or video printer/recorder functions & other peripheral units. • Adaptable to an operating microscope by means of a special quick adapter. • Camera head fully soakable for disinfection. USFDA / European CE approved.
				suction & irrigation cannula 5 mm & 10 mm	Replaced as-Suction and Irrigation Tube, anti-reflex surface with two-way stopcock, size 5 mm and 10mm, length 36 cm
				veress pneumoperitoneum needle	Replaced as-Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1mm, working length 10- 18 cms. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1mm, working length 13 & 15 cms.
				metzenbaum scissors with connector pin for unipolar coagulation- Straight, Curved	Replaced as-METZENBAUM Scissors, 360 degree rotational sheath, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws.
				Monopolar high frequency cord-	Replaced as-Monopolar high frequency cord-USFDA / European CE approved
				PCOD Needle-	Replaced as-PCOD Needle-USFDA, CE approved
				Uterine manipulator (Colptomizer)	Replaced as- Uterine Manipulator, consisting of: Handle with fixation screw Manipulator Rod 2 Sealing Cylinder, Silicone Seal, package of 3 (3 sizes) Sheath, Working Insert, conical, with thread, medium Working Insert, atraumatic, diameter 7 mm, length 50 mm Working Insert, with connector for chromopertubation, atraumatic, 4 mm, length 40 mm, Anatomical Blade, short Cleaning Adaptor and Colptomizer. USFDA, CE approved

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
				Needle Holder Pistol Grip, Tungsten Cardiile Straight & curved jaws	Replaced as-Macro needle holder with tungsten carbide insert, dismantling into three parts, ergonomic pistol handle, with disengageable ratchet
				Post closure (Small Mochi)	Replaced as- Post closure USFDA, CE approved
				Knot Pusher	Replaced as- Knot Pusher USFDA, CE approved
				Babcock's Laparoscopy forceps –20 mm	Replaced as-BABCOCK Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 10 mm, length 36 cm, double action jaws.
				Endobag -	Not required
				DVD Writer-	Not required
27	2	3	Laparoscopy Trolley and documentation system	LCD screen 14" x 12" pTrolley—Fiber polyester, laminated Shelves-4, Height-150cms, width-72,depth-75cms Connected wiring, switch panel fiber drawer, epoxy powder	Repalced as-Equipment Cart, wide, high , rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, central beams with integrated electrical sub distributors with 12 sockets, grounding plugs, Dimensions in mm (w x h x d):Equipment cart: 830 x 1474 x 730,Shelf: 630 x 25 x 510 Caster diameter: 150mm ,consisting of:- Beam Package, equipment cart high 3 X Shelf, wide , Drawer Unit with Lock, wide, - 2X Equipment Rail , long, - Camera holder. Monitor Holder, Monitor Holder , height adjustable , swiveling and tilting , swivel range approx. 360 degrees.Load capacity max 18 kg, with monitor fixation VESA 75/100.USFDA, CE approved.USFDA, CE approved
28	2	4	Digital CO2 insufflator	Flow rate-1 to 30 lbs/min -Output connection 4to 5mm 1D tube - Maximum input pressure 7 BAR -Minimum input pressure 2 BAR	Replaced as-CO2 Electronic Insufflator: Electronic CO2 insufflators Should have an adjustable flow rate Gas flow/min 0-20 ltrs, Pressure (mmHg) 0-30 (mmHg), Intra-abdominal pressure guage 0-50 (mmHg), Power supply 100-240 VAC (50/60 Hz), Dimension 305 x 164 x 233 mm (w x h x d), Weight 6 kg, Certified to IEC 601 – 1, CE label according to MDD. -High degree of patient Touch keys for precise pre-selection of set values. → Can be control with camera head, it makes operating for the surgeon a highly ergonomic and pleasant working experience.Should have High Pressure Hose, American connection / pin-Index connection (CO2), length 102cm.Safety – constant monitoring of Intra-abdominal pressure; any overpressure is reduced immediatly. USFDA, CE approved.

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
29	2	5	Laparoscopy Trolley and documentation system	Overall approx size 680mmLx700mm Wx1570mmH - Suitable for keeping monitor light source camera unit printer and other peripheries of endoscope - 5 Shelve Top shelf of size 640X450 X(LXD) - Other four self size must be 510 mm L X 450D - Self must be adjustable at desire hight - Ms drawer at bottom -Aesthetically design vertical upright of aluminium extrusion & aluminium alloy base fitted wheel two with brakes Castor Housing & wheels made high grade non floor staining synthetic material with integrated having precision ball bearing to run smoothly Trolley must have provision for socket of S/15 amps – 230 Vac 3 pin plugs Each out put on- off switch with indicator & safety fuse Trolley must have provision for handless SS IV ROD & gas Cylinder cage mounted on swivel castors 50 mm dia All MS part are pre treated and powder coated finish Trolley must be supply with built in key board on shelves camera holder TV Monitor – 19 “ preferably holder	Repalced as-Equipment Cart, wide, high , rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, central beams with integrated electrical sub distributors with 12 sockets, grounding plugs, Dimensions in mm (w x h x d):Equipment cart: 830 x 1474 x 730,Shelf: 630 x 25 x 510 Caster diameter: 150mm ,consisting of:- Beam Package, equipment cart high 3 X Shelf, wide , Drawer Unit with Lock, wide, - 2X Equipment Rail , long, - Camera holder. Monitor Holder, Monitor Holder , height adjustable , swiveling and tilting , swivel range approx. 360 degrees.Load capacity max 18 kg, with monitor fixation VESA 75/100.USFDA, CE approved.USFDA, CE approved
30	2	6	Hysteromat	Flexible hysteroscope with operating accessories:- Scissor 02 Grasper 02 Allis forceps 02	Added: Hysteromat Specification- -Presser Range - 50-225 mmHg Liquid Flowrate- 10 to 1000 ml/min. Power Supply- 170 to 250 v, 50 Hz , Power Consumption- 50 to 600 v
31	2	9	Digital High Definition Video Recording System and documentation system	HDMI-1XHDMI Component -1xYPbPr Composite-1xRCA/CvBs Video Format-H.264 AVCHD M2TS Image Format- JPEG File System-FAT32	Added: Documentation system for digital recording of still images and videos:Pre-configured complete system for intra-operative recording of still images and videos and for entering of patient data. Quickprint function for fast print of images. Input voltage: 100-240 VAC.Input frequency: 50/60 Hz.Power input: 1.6A (250 VAC).Power output: 25 Watt

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
32	2	10	Three Chip camera head & focusing coupler	Resolution -3x752x582 Definition-1155lines Sensitivity-0.18Lux Signal to noise ratio-75db Electronic shutter-1/100 000 sec. Video outputs-1 BNC, 1 RGB, 1 Y/c	Replaced as- Three Chip Camera System Specifications: Digital Three-Chip Medical-Video-Camera – color system PAL, with integrated Image Processing Module. Special Features:- <ul style="list-style-type: none"> • Should be fully compatible to the color systems PAL & NTSC. All the necessary settings required to be done during surgery in the camera should be under sterile area. • Should have the facility of Digital Image Processing by means of an integrated Image Processing Module. Multiple settings allow the user to select the preferred level of image enhancement. • Digital contrast enhancement • Digital anti-moiré/anti-grid filter for use with fiberscopes. • Should have Parfocal Optical Zoom lens system. • Should have the additional facility of Electronic 2x zoom, selectable in 4 steps. • Integrated Still Image function. • Digital Video output DV. For direct hook up with Lap top • Should have the Auto Exposure System for consistent illumination level. • High horizontal image resolution of more than 750 lines, therefore even the finest variations in tissue structures are perceivable on a high-resolution monitor. • Automatic white balance with memory function for two settings. • Multilingual menu system. • Character generator • Composite, S-VHS and RGB compatibility • World power supply • 2 programmable function keys on the camera head for control of camera functions or video printer/recorder functions & other peripheral units. • Adaptable to an operating microscope by means of a special quick adapter. • Camera head fully soakable for disinfection. USFDA, CE approved.
				General specifications: Light weight Easy handling and processing Compact study and ergonomic design Remote switch on the scope Integrated with standard accessories for cleaning and maintenance	Replaced as- General Specifications Light Weight Easy handling and processing Compact study and ergonomic design
				Technical features of the scope 1 High resolution CCD chip Field of view: 120-140 degrees front view Depth of view: 3-100 mm or better Outer diameter of the distal end: 3.4-3.9mm Outer diameter of insertion tube: 3.4-3.9mm Inner diameter: 1.2-2mm Upward angulations: 180 degrees Downward angulations: 130 degrees Working length: 60-65cm Total length: 80-90cm	Replaced as- Technical Features of the Scope Field of view: 90-140 degrees front view Depth of view: 3-100 mm or better Outer diameter of the distal end: 3.4-3.9mm Outer diameter of insertion tube: 4.5mm-5.2mm Inner diameter: 1.2-2mm Upward angulations: 140-180 degrees Downward angulations: 120-150 degrees Working length: It Should be more than 60 cm Total length: 800-950mm

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
33	1	5	Fiber Optic Laryngoscope (Adult)	2- field of view: 1200 Depth of field: 3-50mm Tip deflection up/down: 210/1300 Rigid distal diameter: 4.5-5.0 mm Diameter of working channel: 1.5-2.0 mm Insertion tube working length: 600 mm Total length: 860 mm	Rplaced as- Technical specifications for Adult Scope 2- field of view: 100-120 Degrees Depth of field: 3-50mm Tip deflection up/down: 140/140 Rigid distal diameter: 4.5-5.5 mm Diameter of working channel: 2.0-2.5 mm Insertion tube working length: It should be more than 600mm Total length: 800-950mm
				Video system center /video processor with key board should be Independent /separate module from light source Pre-procedural patient data storage up to 40 patients Emergency back-up bulb facility in light source Image freezing capicityOn the scope Voltage on pal-220-240v, 50-60 ac-suitable for indian conditions Video outputs: rgb, bnc, y/c	Replaced as - Scope should have length calculation marks preferably 500mm each It should have inbuilt suction port which can be attached to already available suction machine Scope should contain the following accessories : ETT Holder Cleaning Brush Suction Adapters Leakage tester Airway to guide the tube orally Bite block Carrying Case

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
				<p>Xenon light source Independent /separate module from video processor Light weight Xenon light source 150-300 Voltage specifications suitable to indian condition -220-240 volts ac 50-60 hz, 0.5amps. Forced air-cooling with emergency lamp (halogen) Lcd monitor: should be Color monitor Minimum 14inches size screen High resolution Rgb, y/c and bnc Light weight Accessories Leakage taster Cleaning brush for the channel, channel opening cleaning brush (2 nos. Each) Good quality trolley Computer with printer &software for storing /documentation biopsy forceps with window: 2no.s Cleaning brush (short):1 no. Cleaning brush (long):1 no. Suction cylinder cleaning brush: 1no. Rubber intel seal: 10no.s Suction channel cleaning cap: 1no. Bite block: 1no. Eto gas venting cap: 1no.</p>	<p>Replaced as- Specification of Video System, Monitor and Light Source: Camera Control Unit: Digital Single-Chip Medical-Video-Camera – color system PAL, with integrated Image Processing Module Should be fully compatible to the color systems PAL & NTSC Digital contrast enhancement Digital anti-moiré/anti-grid filter for use with fiberscopes Should have the Auto Exposure System for consistent illumination level. High horizontal image resolution of more than 450 lines, therefore even the finest variations in tissue structures are perceivable on a high-resolution monitor Automatic white balance with memory function for two settings Video Output : Composite signal to BNC socket, S- Video signal to 4 pin Mini-DIN socket 2x Certified to IEC 601-1,601-2-18,CSA 22.2 No 601, UL 2601 and CE acc to MDD, protection class1/BF Image sensor: 1/2" CCD-Chip. Resolution :> 450 lines (horizontal). Pixels: 752(H) x 582(V) Signal-to-noise ratio: >= 60 dB AGC:Microprocessor controlled LENSE: C Mount Connection Weight Should not be more than 75 gms Min. sensitivity:3 Lux (f 1.4) Dimensions: Diameter 23-33mm, length 53-58mm. 2 programmable function keys on the camera head for control of camera functions or video printer/recorder functions & other peripheral units.</p>
				<p>paediatric Bronchoscope, length 30 cm size 6 Bronchoscope, length 30 cm size 5.5 Bronchoscope, length 30 cm size 5 Bronchoscope, length 30 cm size 4.5 Bronchoscope, length 30 cm size 4 Bronchoscope, length 30 cm size 3.5 Bronchoscope, length 30 cm size 3 Bronchoscope, length 30 cm size 2.5</p>	<p>Rplaced as- Straight Forward Telescope 0°, Fiber optic light transmission incorporated. Bronchoscope pediatric Bronchoscope, length 30 cm size 6 Bronchoscope, length 30 cm size 5.5 Bronchoscope, length 30 cm size 5 Bronchoscope, length 30 cm size 4.5 Bronchoscope, length 30 cm size 4 Bronchoscope, length 30 cm size 3.5 Bronchoscope, length 30 cm size 3</p>

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
34	3	12	Bronchoscope Set (Pediatric & Adult)	Bronchoscope adult Bronchoscope tube universal, with fiber optic light carrier, length 43 cm, size 8.5 Bronchoscope tube universal, with fiber optic light carrier, length 43 cm size 6.5	Replaced as- Bronchoscope adult Forward-Oblique Tele- scope 0°, diameter 5.5 mm, length 50 cm, Forward-Oblique Tele- scope 30°, diameter 5.5 mm, length 50 cm, Bronchoscope tube universal, with fiber optic light carrier, length 43 cm, size 8.5 Bronchoscope tube universal, with fiber optic light carrier, length 43 cm size 6.5
				Accessories for bronchoscopy Prismatic light deflector with connection for fibreoptic cable light carrier. Glass window plug Instrument guide for aspiration catheter Adaptor to respirator Sealing plug for respirator connection Rigid suction tube 50 cm length x2.0 mm dia, 35cm lengthx2.0mm dia, 25 cm length x2.0 mm dia.	Replaced as- Accessories for bronchoscopy Prismatic light deflector with connection for fibreoptic cable light Carrier. Glass window plug Instrument guide for aspiration catheter Adaptor to respirator Sealing plug for respirator connection Rigid suction tube 50 cm length x2.5 mm dia, 35cm lengthx2.0mm dia, 25 cm length x2.0 mm dia.
				Bronchoscopic forceps Peanut grasping 55 cm length x2.5mm diameter Crocodile alligator forceps straight, Lt&Rt Circular cup biopsy forceps standard 35 cm lengthx2.5mm diameter Alligator grasping 45 cm length x2.0 mm dia	Replaced as- Bronchoscopic forceps Peanut grasping 50 cm length x2.5mm diameter Crocodile alligator forceps straight, Lt &Rt Circular cup biopsy forceps standard 35 cm lengthx2.5mm diameter Alligator grasping 45 cm length x2.0 mm dia
35	3	28	Telescope handle	Stammberger telescope handle flat	Replaced as-Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base
36	3	29	Hartman's nasal speculum	L-13cm,	Replaced as-Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base
37	3	30	Septum needle	Angular, leur lock	Replaced as- Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base
38	3	31	Cottles elevator	L-20cm, double ended semi sharp & blunt	Replaced as-Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base
39	3	32	Kuhn bolger frontal sinus curette (55° curved)	Small oblong, forward cutting length 19cm, 55° curved	Replaced as-Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base
40	3	33	Kuhn bolger frontal sinus curette (90° curved)	Small oblong, forward cutting length 19cm, 90° curved	Replaced as-Basic set for Endoscopic Diagnosis and Surgery of Nasal Sinus and Anterior Skull Base

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
41	3	37	Burrs	Burrs: Cutting 0 to 5 number -1 each Polishing 0 to 5 number – 1 each Diamond 0 to 5number- 1 each	Replaced as-Burrs are accessories of Micro Motor Drill System to be used in ENT applications and should be supplied by a single manufacturer as a complete set along with drill system as to avoid incompatibility issues as they are specifically designed.
42	3	40	Drill Machine with mastoid set for temporal bone lab	Micro drill: Surgical micro motor/ drill 50,000 rpm foot and hand control with different special department bur bits. Straight Hand piece: Straight hand piece with quick toll clamping type of shank @ 2/35, L 70 mm (TWO IN NUMBER) Contra Angle:Contra angle with quick tool clamping type of shank @ 2.35 mm, L 70 mm.	Replaced as-International Standards for a High Speed Micro Motor drill for use in ENT High Speed Micro Motor System with motor control display with Hand pieces Straight & Contra angled to be used in Sinus Surgery, Otology, Ethmoid , Mastoid & Temporal Bone surgeries with foot control, integrated irrigation system, speed greater than 50,000 rpm, burrs for special applications Burrs: Cutting 0 to 5 number -1 each Polishing 0 to 5 number – 1 each Diamond 0 to 5number- 1 each
43	3	43	Micro Drill with hand piece with burrs of sizes	Micro drill: Surgical micro motor/ drill 50,000 rpm foot and hand control withdifferent special department bur bits. Straight Hand piece: Straight hand piece with quick toll clampingtype of shank @ 2/35, L 70 mm (TWO IN NUMBER) Contra Angle, Contra angle with quick tool clamping type of shank@ 2.35 mm, L 70 mm.	Replaced as- High Speed Micro Motor System with motor control display with Hand pieces (Straight & Contra angled) with quick tool clamping type to be used in Sinus Surgery, Otology, Ethmoid , Mastoid & Temporal Bone surgeries with foot control, integrated irrigation system, speed greater than 50,000 rpm, burrs for special applications Burrs: Cutting 0 to 5 number -1 each Polishing 0 to 5 number – 1 each Diamond 0 to 5number- 1 each
				1. Fiber optic light cable length 250 cm size 5 mm	Replaced as- Fibre Optic Light Cable , Thickness 5mm Length 300 cms

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
44	3	44	Accessories for nasal endoscopes (Instruments, endo camera & monitor for visualization)	<p>2. Endoscopic camera Endo Camera 3 chip-- camera vision system I high definition includes HD camera control unit 220v camera head w/24mm coupler, 3.15 mtr. cable cat. Specifications and Features: The only medical grade camera with the true digital output high definition digital circuitry 3 chip camera. With 8 steps built-in digital enhancer. Electronic Zooming HD Features digital, Progressive scanning Digital: Hi definition (HD) video-1280 x 1024 native resolution incredibly small and ergonomic camera headfor superior comfort and control Standard aspect ratioallows you to maximize existing video equipment Progressive seal technology-optimum image quality with superb resolution Digital outputs - DVI necessary to take advantage of digital Hi definition fidelity four button camera head design - control of 6 functions from the camera head Multi-Specialty settings-user selectable Specialty setting which customize video output for the unique needs of your cases</p> <p>3. LCD Monitor</p> <ul style="list-style-type: none"> • BrightView Technology enhances clarity and provides brilliant colors • 1920 x 1200 factory-set resolution • Video inputs supported: • VGA analog signal • DVI-D digital signal • Integrated speakers • Built-in USB hub with 3 USB 2.0 ports for connecting USB devices to the PC (requires a USB cable connection to the PC). • High-bandwidth Digital Content Protection (HDCP) to prevent transmission of non-encrypted high definition content • Plug and Play capability • Tilt adjustment • Height adjustment • Pivot adjustment, for landscape or portrait viewing (select models only) • On-screen display (OSD) 	<p>Repalced as- 2. Endoscopic Camera 3 chip High Definition Endovision System Standard International Specifications Image sensor: 3X1/3'' CCD-Chip.Pixels 1920 x 1080 Lens:Optical Zoom Lens Video output: Composite signal to BNC socket. Y/C signal to S-VHS socket (2 x). RGB signal to D-sub socket HDTV signal to DVI-D socket Input: Keyboard input for character generator Mains Cord BNC/BNC Video Cable Length 180 cm S-Video (Y/C) Connecting Cable Length 180 cm Special RGB Connecting DVI-D Connecting Cable Length 300 cm Keyboard with US English Character Power Supply:- 100-240 VAC 50/60 Hz Certified to : IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class1/CF 3.High Definition Medical Grade Monitor The monitor should have HDTV display in original 16: 9 HDTV format. 1080 p/ 50 & 1080 p/60 displays possible. LED crystal display. Max. Resolution of 1920X1080 Specifications HD TFT Flat Screen Monitor with stand size 26", Aspect Ratio 16:9 HD format Brightness : 500 cd/m Maximum viewing angle : 178° vertical Contrast ratio: 1400 : 1 Reaction Time – 8ms</p>
45	2	8	Vaginal Hysterctomy Set	Should be deleted as in process of RC.	No change
46	2	14	Delivery Set	Should be deleted as in process of RC.	No change
47				All safety certificates, European CE/USFDA or equivalent standards certification, test reports from government approved laboratory, warrantee and clearances from FDA etc to be submitted.	Replaced as-It should be European CE or USFDA only.
48				All the patient monitors including parameters and features should be USFDA approved.	Replaced as-It should be European CE or USFDA only.
49				The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, what so ever, the supplier will bound to supply that new model without any extra cost.	Replaced as-Equipment quoted should be of latest model. Rest deleted.

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
50	2	11	Shadow less mobile side lamp for O.T.	Single reflector mobile halogen OT Light completely spring balance with reserve halogen blub. Concealed transfer intensity control and main switch with voltmeter provided on front panel effective heat absorbing colour correcting felter provided for cool white and brilliant pre-treated epoxy powder coated light intensity -50,000 lux halogen bulb:1x24v150 w	Replaced as: Mobile LED OT light completely spring balance with 40,000 HRS. lamp life. Inbuilt Power supply with battery backup for emergency use. It should provide cool white light. Light intensity should be 80,000 Lux. Product should be European CE/ US FDA approved.
51	3	9	Heave duty shadow less operating light for ENT OT similar make major+minor (O.T.)	<p>Specially designed for providing cool & high intensity light colour-correcting heat & high intensity. Light colour- correcting heat radiation in the field. High performance special halogen light sterilizable handle provided for positioning of lamp possibility of wide range of radial, Angular & axial smooth movements. Technical specification Type of lamp ceiling with twin domes seven+four reflector Dome 1 Dome2 Size 712mm approx. 557 mm approx. LUX intensity 80,000 LUX+-10%K4300+-10%K Temp. Inc.2o C +-to 4o C ambient Light field diameter 15-20 cm Halogen bulb 24 W Power supply 220 V AC, 50/60 Hz 220V AC 50/60Hz.</p>	<p>The Above Specification of Schedule 3 item no. 9 of ENT Dept. "Heavy duty shadow less operating light for ENT OT similar make major + minor (O.T.)" should be read as given in Annexure 2. Quantity of item no.9 of schedule no.3 "Heave duty shadow less operating light for ENT OT similar make major+minor (O.T.)" is mentioned 8 in uploded price sheet is amended to 36. Bidder should quote accordingly.</p>
				<p>Specially designed for providing cool & high intensity light colour- correcting heat & high intensity. Light colour- correcting heat radiation in the field. High performance special halogen light sterilizable handle provided for positioning of lamp possibility of wide range of radial, Angular & axial smooth movements. Technical specification Type of lamp ceiling with twin domes seven+four reflector Dome 1 dome 2 Dome Size 712mm approx 557mm approx LUX intensity 80,000 LUX+-10% 50,000 LUX Temp. 4300+-10%K4300+-10%K Temp. Inc.2°C+-to 4°C ambient Light field diameter 15-20cm Halogen bulb 24 W Power supply 220 V Ac, 50/60Hz 220V AC 50/60 Hz</p>	
				Original Tendered Quantity:8 nos.	Tendered quantity is revised to 36 nos. E-procurement system doesn't allow to revise the price sheet during pre-bid, hence bidders are requested to keep the revised quantity in mind while quoting the price.

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
52	3	14	ENT heavy duty operation table	ENT heavy duty operation table with complete hydraulic and gear system tilt in any direction. Table operating-remote controlled electronic with CE mark Technical specification: length 1910mm, width 530mm,maximum height 950mm, minimum height 750mm, trendlenberg, Upto 30o , reserve trendlenberg, up to 20o lateral tilts 200 both side.	Replaced as- ENT heavy duty operation table with complete hydraulic and gear system tilt in any direction. Table operating-remote controlled electronic with European CE mark/USFDA Technical specification: length 1910mm, minimum width 520mm,maximum height 950mm, minimum height 750mm or better, trendlenberg, Upto 30 Deg or more , reserve trendlenberg, up to 20 Deg. or more lateral tilts 20 Deg. both side. Should supply following accessories: 1. Head support and Arm board
53	3	24	CO2 laser system		Added: Laser delivery through both titanium clad fiber (wave guided) and articulated arm. Product should be European CE/ USFDA Approved.
54	1	29	Portable Echo Cardiography Machine (ICU Dedicated Ultrasound and Echo Machine)	Mobile trolley mounted system with built in workstation / data management system for digital acquisition, storage,	Changes Suggested NOT Accepted
				Ports:3-Active switch able transducer transthoracic ports excluding pencil port	Changes Suggested NOT Accepted
55	2	12	Ultrasound with Doppler and in-built printing and recording system	Standard - main unit + convex printer + 2 probe connector + USB ports + VGA Port (extra printer Trolley, Biopsy kit	Changes Suggested NOT Accepted
56	5	1	Shadow Less Lights	<ul style="list-style-type: none"> • Ceiling LED operating light double lamp head should have more than 70 LED in major lamp head and more than 50 in satellite lamp head should offer excellent luminous efficiency light source and incredibly long life LED • Major lamp head intensity 150000 lux and minor 90000 lux • Life of LED more than 35000 hrs. 	Item is deleted.
				Lamp head 700 mm dia 1 bulb Light intensity 150000 Lux Power requirement - 150 W Color temperature - 4250 K Average life for LED - 35000 hours	

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
				Intensity requirement -90000 Lux Color temperature - 150 W Average life for halogen bulb - 35000 hours	
57	1	17	Anesthesia Pendant in OT	<ol style="list-style-type: none"> 1. Supports upto 160 kg 2. Integrated accessory rail 3. Electric brake handle 4. Adjustable equipment shelves 5. Equipment rails 6. Pneumatic brake indicator 7. Adjustable shelves 8. Self closing lockable drawer 9. Integrated equipment rails 10. Seamless injection control 11. Custom outlet placement 12. Centrally aligned shelves 13. Option of rotation facility 14. Patient life pendant option 15. Arms allow for positioning adjustment of pendant head within 2 meter range 16. Provision for i/v attachment 17. Turning range of 330 18. Stable strong adjustable mounting plate design 19. Expansion side pods. 20. Easing incorporation of cable system. 21. No of outlets 6 [2 for oxygen, 2 for vacuum, 1 for nitrous oxide & 1 for air (4 bar)] 22. Range 2 meter 	<p>Replaced as:</p> <ol style="list-style-type: none"> 1. Load carrying capacity up to 120 KG or more 2. Integrated accessories rail 3. Electric / Pneumatic brake handle 4. Adjustable equipment shelves-2 Nos. 5. Equipment rail on shelves 6. Pneumatic brakes 7. Drawer-1 no. 8. Angle of rotation of column and arms should be maximum 330 degree 9. Double arm pendant minimum length of arm should be 2 meter 10. IV pole with extension arm - 1 no. 11. Stable strong adjustable mounting rail design 12. Easing incorporation of cable system 13. No. of Gas Outlets- 6 (2 for Oxygen, 2 for vacuum, 1 for Nitrous Oxide, 1 for Air 4 bar) 14. No. of electrical sockets- 8 15. No. of data sockets- 2 16. Product should have European CE/ US FDA approval.

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
58	1	32	Isoflurane Vaporiser	<ul style="list-style-type: none"> should be agent specific -calibration must be correct -pressure compensated -temperature compensated -flow compensated -selectatec compatible -should have a local technical support engineers for 24 hours backup. 	<ul style="list-style-type: none"> Replaced as: should be agent specific and calibration free -pressure compensated -temperature compensated -flow compensated -Range upto 6% -Filling capacity of 250 ml of liquid anesthetic. -Funnel Fill type -US FDA approved product. -selectatec compatible - Should supplu Cage mount if required to be installed in simple Boyle Apparatus. -should have a local technical support engineers for 24 hours backup.
59	1	33	Sevoflurane Vaporiser	<ul style="list-style-type: none"> Should be agent specific -calibration must be correct -pressure compensated -temperature compensated -flow compensated -selectatec compatible -should have a local technical support - engineers for 24 hours backup -Scope of supply 1. Selecta tec vaporiser (sevoflurane)- 1 no 2. Key filler - 1 no 3. Manual - 1 no 	<ul style="list-style-type: none"> Replaced as-Should be agent specific and calibration free -pressure compensated -temperature compensated -flow compensated -selectatec compatible -should have a local technical support -Range upto 8 Vol % -Quick fill type -Filing Capacity 250ml -US FDA Approved product - engineers for 24 hours backup -Scope of supply 1. Selectatec vaporiser (Sevoflurane)- 1 no 2. Manual - 1 no 3. Cage mount if to be installed in simple Boyle Apparatus
60	4	36	Combination of Microwave Diathermy + Computerized Traction With Couch		Specification of Combination of Microwave Diathermy + Computerized Traction With Couch asked in NIT 47 are similar to NIT 55 Schedule 9 item "Combination of pulsed microwave therapy cum computerised Traction unit with couch". Hence item is dropped here.
61	4	37	BALANCE System		The Equipment name in NIT 47 Schedule 4 Physiotherapy item no 37- "Balance system" & "Recumbent bike" in price sheet has to be read as Mini Balance System & should be quoted accordingly.

S.No.	Schedule No.	Item no.	Item name	Various Queries Received on below Tendered Technical specifications	Amendments
62	4	38	Continuous Passive Motion (CPM) Unit		The Equipment name in NIT 47 Schedule 4 Physiotherapy item no 38- "Continuous Passive Motion (CPM) Unit" & "Upper extremity CPM" in price sheet has to be read as Lower Extremity Continuous Passive Motion (CPM) Unit & should be quoted accordingly.