

The Children's Hospital, University of Child Health Sciences,



Ferozepur Road, Lahore Phone # (92) (42) 95230901-23 Fax # 99231560

NO. P.C./ 58546

/CH&UCHS

Dated 2 2 - 10 - 2022

To

Mr. Abdul Wahab I/C Programmer (I.T.) Health Department, Civil Secretariat, Lahore.

Subject: -

REQUEST FOR UPLOADING THE MINUTES OF PRE-BID MEETING REGARDING THE PURCHASE OF ELECTRO MEDICAL EQUIPMENT FOR ENT & UROLOGY FOR THE YEAR 2022-2023 ON HEALTH DEPARTMENT WEBSITE

Please find enclosed herewith Minutes of the Pre-Bid Meeting regarding the Purchase Of Electro Medical Equipment For ENT & Urology in The Children's Hospital, University of Child Health Sciences, Lahore for the year 2022-2023, need to be upload in the Health Department website.

Your positive response will be highly appreciated.

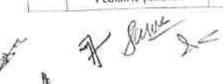
Prof. Dr. Muhammad Saleem Professor of Pactiatric Surgery Medical Director

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MINUTES OF THE PRE BID MEETING FOR THE PROCUREMENT OF FLECTRO MEDICAL EQUIPMENT FOR ENT AND UROLOGY HELD ON 13-10-2022 AT 10:30 A,M, IN THE CONFERENCE ROOM OF THE ADMIN BLOCK IN THE CHILDREN'S HOSPITAL, LAHORE,

- Bids regarding the procurement of Electro Medical Equipment for ENT and Urology was advertised vide bid notice No. P.C./53106/1-58/CH&UCHS Dated 27-09-2022.
- Tender Published in newspaper on 01-10-2022 under IPI, No. 9813 (Daily Dawn & Daily Express) as well as on PPRA website on 03-10-2022 and ready for sale.
- As per advertised tender a Pre-Bid Meeting held on 13-10-2022 at 10:30 am (As per schedule already given in the advertisement).
- 4. Meeting starts with the recitation of the Holy Quran. It was briefed to the Chairperson that pre-bid meeting scheduled to clarify the queries of the company in order to avoid any misunderstanding during the bidding process. Detailed discussion made by the Pre-Bid Committee with the representative of the firms - following points were discussed and decision made as follow,

	111111111111111111111111111111111111111	Clarification from the Committee	
Sr. No.	Equipment		
1.	CO2 Laser for ENT	After pre bid specification are attached please quote the bid as per specification	
2.	Operating Microscope for ENT	After pre-bid specification are attached please quote the bid as per specification	
3.	Fess Equipment Functional Edoscopic- Sino Surgery	After pre bid specification are attached please quote the bid as per specification	
4.	The State of the Control of the Cont	After pre-bid specification are attached please quote the bid as per specification.	
5.	THE STREET STREET, STREET STREET, STRE	Please note that 4K Camera System required instead of HD earners system.	
6	Pediatric Laparoscope Set / System	After pre-bid specification are attached please quote the bid as per specification. After pre-bid specification are attached please quote the bid as per attached specification.	
7.	San Control of the Co		
8	, Medium Range Color	After pre-bid specification are attached please quote the bid as per attached specification.	
9	lithotripter (ballistic & ultrasound combined with suction) Probes	After pre bid specification are attached please quote the bid as per attached specification.	
1	50 pieces 0. Holmium LASER 100 watt with LASER fibers 25 pieces	Please read as Thulium fiber laser 60 Watts. Quote as per specification.	
1	1. (a) Extra-Corporeal shock waves Lithotriptor (ESWL) integrated type for Pediatric patient	Modular type ESWL lithotripter for Pediatric patient instead of Extra-Corporcal shock waves Lithotripter (ESWL) integrated type for Pediatric patient. Quote as per provided specification	



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Sr.		Equipment	Clarification from the Committee		
No.	(b)	General anesthesia	After pre-bid specification are attached please quote the bid as per specification.		
12.		set up as pr PVMS thlear Implantation	After pre-bid specification are attached please quote the bid as per attached specification.		
13	Mis	ddle Ear Micro Ear	After pre bid specification are attached please quote the bid as per attached		
14	Mi	gery Set ddle Far Surgery mpanoplasty and apedotomy Set	After pre bid specification are attached please quite the specification.		
15	Flo	exible isopharyngoscope	After pre bid specification are attached please quote the bid as per attached specification.		
-10		r ENT astoid Drill System	Item No. 16 & 23 should be read as package items. After pre-bid specification are attached please quote the bid as per attached specification.		
1	- P.	atient (facial) Nerve	After pre bid specification are attached please quote the bid as per attached		
1	Monitor 18. Operating head lights		After pre bid specification are attached please quote the specification.		
L	7.00		L myx (S available/Retender,		
	Coblation equipment Suction machines		After pre bid specification are attached please quote the bid as per attached		
	5	Cigid bronchoscope set with Optical	After pre bid specification are attached please quote the bid as per attached specification.		
-	22 1	Forceps Rigid Esophagoscope set with Optical	After pre bid specification are attached please quote the bid as per attached specification.		
H	23	Forceps Shaver Debrider with	Item No. 16 & 23 should be read as package items. After pre-bid specification are attached please quote the bid as per attached specification.		
H		components Mastoidectomy Set	After pre bid specification are attached please quote the bid as per attached		
	23.	Myringotomy Set	After pre bid specification are attached please quote the bid as per attached		
	26.	ENT Unit combined	Item No. 26 & 36 should be read as package items. After pre bid specification attached please quote the bid as per attached specification.		
-	21	Video Otoscope System	No approved PVMS available/Retender		
	28	Oto Endoscope	No approved PVMS available/Retender		
		Pulse Oximeter	After pre bid specification are attached please quote the bid as per attached specification		
İ	30	Larynogscope Set	After pre bid specification are attached please quote the bid as per attached specification.		

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Sr. No.	raquipment	Clarification from the Committee	
31.	Bronchial Endoscope	No	
32.	Micro Laryngeal Surgery Set	No approved PVMS available/Retender After pre-bid specification are attached please quote the bid as per attached specification.	
33.		specification,	
34.		No approved PVMS available/Retender	
35.		No approved PVMS available/Retender	
545955	Equipment	After pre-bid specification are attached please quote the bid as per attached specification.	
.56.	ENT Treatment Units	Item No. 26 & 36 should be read as package items. After pre-bid specification are attached please quote the bid as per attached specification.	
37.	Adeno-Tonsillectomy Set	No approved PVMS available/Retender	
38.	Nasal Surgery Set	No approved PVMS available/Retender	
39,	Stroboscope System	No updated PVMS available/Retender	
40.	Non-Invasive Monitor	After pre bid specification are attached please quote the bid as per attached specification.	
41.	Docking Station with two Syringe Pump	After pre bid specification are attached please quote the bid as per attached specification.	
42.	Cystoscope Set for Neonates	Item No. 42, 43, 44, 55 & 56 should be read as a package items.	
43.	Cystoscope for Infants and Pediatrics	Item No. 42, 43, 44, 55 & 56 should be read as a package items.	
44.	Resectoscope for Infants and Pediatrics	Item No. 42, 43, 44, 55 & 56 should be read as a package items.	
45.	Cystoscope & Resectoscope for Adolescent	After pre bid specification are attached please quote the bid as per attached specification.	
46.	Irrigation pump with pressure monitor system for endoscoppy	No approved PVMS available/Retender	
47.	Pediatrie Mini Nephroscope set	After pre bid specification are attached please quote the bid as per attached specification.	
48	Pediatrie Micro PCNL Sct	Retender.	
40	Pediatric Uretero- Renoscope Semirigid URS 4.5-7.3 Fr, 50 – 60, Length 25-57cm, working channel 3-4 Fr or better	Item No. 49 & 50 should be read as package items	
50	Pediatric Uretero- Renoscope Semirigid URS 6.5-9 Fr. 6 120, Fength 25-57cm, working channel 3-4 Fr or better	hem No. 49 & 50 should be read as package items	

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Sr. Equipment		Clarification from the Committee	
51.	Flexible digital ureteroscopt 6-8 fr (URS)	Retender	
52	Video cysto- uretherocope (FLEXIBLE) 12-16 Fr	No approved PVMS available	
53.	Mobile Ultrasound Machine with Doppler	Nil After pre-bid specification are attached please quote the bid as per attached specification	
54	Hand held Doppler ultrasound	No approved PVMS available.	
55.	Resectoscope for Neonates	Item No. 42, 43, 44, 55 & 56 should be read as a package items.	
56	Optical Urethrotome for Pediatrics	Item No. 42, 43, 44, 55 & 56 should be read as a package items.	
57.	Magnifying Loope 2.5X	After pre-bid specification are attached please quote the bid as per attached specification.	
18.	Digital Camera High definition	After pre-bid specification are attached please quote the bid as per attached specification.	

In case of spelling mistake only (grammatically error please referred PVMS draft)

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	Item No 01
Clinical Specialty	ENT QTY 01
Generic Name	CO ₂ Laser for ENT
Clinical Purpose	The use of lasers in ENT surgery is common practice today the surgical otolaryngology approach has been revolutionized by the ability to perform minimally invasive, highly precise surgery, suitable for a wide range of treatments for diseases of ear/nose/throat. The most used source is the COO laser, treatments for diseases of ear/nose/throat. The most used source is the COO laser, particularly appreciated for the high degree of precision in cutting combined with an excellent coagulation effect.

Consisting of:

Mobile console with keypad/ color touch panel

Multi user system for storage of user programs 25W or better power output

Operation modes including continuous wave, pulse mode Single pulse upto 5s/500Hz variable Pulse repetition

Beam delivery through free moving articulated arm with seven joints and 3600 rotation Low noise cooling system

Hand piece 4"/5"/6" with standard set of tips Nasal Hand piece with stai probes

Micromanipulator with 200 to 500 mm zoom type focusing Foot switch

5 protective goggles Smoke evacuator

Accessories:

Sterilization system complete

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

One doctor foreign attachment at manufacture's site and one Biomedical Engineer comprehensive service training at manufacturer's site.

- Susura

Clinical Specialty	ENT	Item No 2
Generic Name	OPERATING MICROSCOPE FOR ENT	QTY 01
Clinical Purpose	For high quality imaging and brilliant illumination with microscopes for ear, nose and throat	

Floor mounted stand with counterbalanced arm and motorized balancing Microscope body with linear motorized zoom (1:6) or better

Motorized fine focusing

Adjustable speed for focus and zoom

Continuously variable focal length 225 to 600 mm without changing front lens

Binocular tilt able 0°C to 180°C with IPD adjustment

Coaxial illumination Variable spot illumination Eyepieces 10X/12.5X with diotric adjustment

Fully apochromatically corrected optics with high light transmission Dust cover Sterilization protective caps for all drive knobs

LED/Xenon illumination with controllable intensity 180 Watt or better

Waterproof panel Stereo co-observation attachment with inclination with straight Beam splitter

HD camera attachment

Recorder with hard drive and 30" LCD / LED screen

Warranty

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:



Clinical Specialty	ENT Item No	
Generic Name	Functional Endoscopic Sinus Surgery Complete Set (FESS)	QTY I
Clinical Purpose	Functional endoscopic sinus surgery (FESS) is a surgical treatme sinusitis and nasal polyps, including bacterial, fungal, recurrent a chronic sinus problems. FESS uses nasal endoscopes to restore di Clinical Purpose the par nasal sinuses and ventilation of the nasal	rainage of

Hand Instrument Set For Fess

Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 17.5cm to 18 cm, Autoclavable, fiber optic light transmission incorporated, color code: green Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 17.5 cm to 18 cm,

Autoclavable, fiber optic light transmission incorporated, color code: red Lateral Telescope 70°, enlarged view, diameter 4 mm, length 17.5 cm to 18 cm, autoclavable,

Fiber optic light transmission incorporated, Color code: yellow

Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm,

Autoclavable, Fiber optic light transmission incorporated, Color code:

Straight Forward Telescope 0°, enlarged view, diameter 2.7mm, length 17.5 cm to 18 cm,

Autoclavable, fiber optic light transmission incorporated

Straight Forward Telescope 30°, enlarged view, diameter 2.7mm, length7.5 cm to 18 cm,

Autoclavable, fiber optic light transmission incorporated

Straight Forward Telescope 70°, enlarged view, diameter 2.7mm, length 17.5 cm to 18 cm,

Autoclavable, fiber optic light transmission incorporated.

SHAVER SYSTEM FOR FESS.

ENT motor system with display, two motor outputs, integrated irrigation pump and integrated module.

Including:

ENT motor system Mains Cord Irrigator Rod

Single /Two-Pedal Footswitch, two-stage

irrigation, sterilizable

Clip Set, for use with Tubing Cable, length 100 cm Single Use Tubing Set, sterile,package of 3

Shaver Hand piece, for use ENT

Suction Shaver Blade with intelith proportional function Silicone Tubing Set, for

filiation mode range from 3000 to 10000

ed irrigation for Hand piece, straight, Autoclavable, double

serrated cutting edge, rectangular cutting window, diameter 4 mm, length 12 cm, color code:

blue-yellow for use with Hand pieces

Suction Shaver Blade with integrated irrigation for Hand piece straight, Autoclavable, concave

cutting edge., diameter 4 mm, length 12 cm, color code: blue-green, for use with

Hand

Nasal Forceps, straight, with cleaning connector, working length 13 cm Nasal Forceps, 45°

upturned, with cleaning connector, working length 13 cm

Nasal Forceps, straight, through-cutting, tissue-sparing, BLAKESLEY shape, width 3 mm, with

cleaning connector, working length 13 cm

Antrum Grasping Forceps, jaws curved downwards, fixed jaw curved, movable jaw backward opening 120°, with cleaning connector, working length 10 cm

Antrum Grasping Forceps, jaws curved to right, fixed jaw curved, movable jaw backward opening with cleaning connector, working length 10 cm

Nsal Scissors, straight, with cleaning connector, working length 13 cm

Bipolar Suction Forceps, 45° upturned, with suction channel, for bipolar coagulation in para nasal





areas, working length 12.5 cm, for use with Bipolar High Frequency Cords

Bipolar High Frequency Cord, for Bipolar Suction Forceps and Bipolar Forceps length 450 cm Punch, circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with

cleaning connector, working length 18 cm, including Cleaning Tool

KAMEL Punch, 45° upturned, punch head diameter 4.5 mm, circular cutting, with cleaning

connector, working length 13 cm

Frontal Ostium Seeker, double ended, both sides curved, tips bent right and left, length 22 cm

Antrum Curette, oblong, small size, length 19 cm

Antrum Cannula, LUER-Lock/Equivalent, short curved, outer diameter 2.5 mm, length 12.5 cm Suction Tube, with mandrel and cut-off hole, with distance marking at 5 - 9 cm, 9 Fr., working

length 10 cm

Sickle Knife, pointed, length 19 cm

Elevator, double-ended, semi sharp and blunt, length 20 cm

Endo Vision System For Fess

Full Modular Camera System for both Flexible & Rigid endoscopy. Camera System (CCU & Camera head) should be HD or FULL HD.

The system must comprise of following

HD/FULL HD Video Processor CCU with integrated documentation function image and video capturing with CMOS FULL HD camera Heads with following technical data or better or Equivalent

Max. Resolution: - 1920 x 1080p

Internal storage 50 GB.

Special Features:

Compatible with a large variety of camera heads.

Supports camera heads in combination with rigid and

single use flexible video endoscopes

Complete documentation of the procedure is po

Patient data entry, store images and videos in ii

USB. Attachment of printer is possible.

HD CMOS Camera Head

CMOS HD Camera Head, compatible, progressive scan, soak able, with focal length f = 16 mm or better, 2 freely programmable camera head buttons

Technical data:

loscopes as well as reuseable and

ossible

nternal memory, transfer of Videos and images on

- · Image sensor: CMOS chip · Progressive scan (full frame) for Integrated zoom lens
- f= 16 mm or better
- · Control of them freely programmable).

27" Medical Grade Monitor

27" Medical Grade Monitor from the same manufacturer and should have recommendation for endoscopic MIS surgery with following technical data. Max. screen resolution 1920 x 1080, image format 16:9, Interface: RS 232,

Video Inputs: 2xDVI, Ix3G-SDI, IxRGB, Ix S-Video, Ix Composite Video Outputs: Ix DVI, IX 3GSDI, Ix Comp. Ix S-Video, Ix RS232. CE label, class I.

Certified to: ANSI/AAMI ES60601-1, CAN/CSA C22.2 N0.60601-1:14 und EN 60601-1, EN60601-1-

FCC part 15. Subpart B Class A, MDD 93/42/EEC. FDA Class I Medical Device. Including Following Accessories:

Ix DVI cable

1 x External 24 VDC power supply. 1 x Main's cord.

1 x Cable cover.

4 x Mounting screws M4.

Equipment Cart with monitor Stand (LOCAL Supply),

rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6







sockets, grounding plugs Equipment cart:

Shelf: Including:

Base Module, equipment cart LC Cover, equipment cart LC

Beam Package, equipment cart LC

Shelf, wide Drawer Unit with Lock, wide Camera holder LED light source 150 with one light port

Technical data:

Lamp type: High performance LED.

Light intensity adjustment: Continuously manual

Certified to: IEC 60601-1, IEC 60601-2-18, UL 60601-1, CSA M601.1, CE according to MDD, protection class 1/ safety class CF. Special features:

Extremely long average lamp life time of 30,000 hours. Fiber optic light cable compatible with

telescopes.

Recording system (same Manufacturer) Technical Data: Input Voltage: 100-240VAC Input Frequency: 50-60 Hz

CPU: Intel® Core™ i7-6700 @ 3.4GHz. Internal storage: SSD (70 GB)| HDD (;

16 GB.

Connections: 2 x1 GB Ethernet (RJ 45), 9 x USB 2.0 & 3.0 Image formats: BMP, JPG, PNG

Video format: MPEG-4, MPEG-2, MOV.

ideo signal inputs: 1 x DP 1.2A, 1 x HDMI 2.0 Video outputs: 1 x DP1.ÿ1 x HDMI 2.0

Resolution images: up to 3840x2160p(native resolution and aspect ratio) Resolution video clips:

up to 3840x2160p@60Hz

Type approval: IEC 60601-1-1, EN60601-1, EN60601-2.ÿW O'

Classification: CE, MDD, CSA. Special Features: 11" or better touch screen Aspect ratio: 16:9.

Record of two image sources (parallel or Indivisal)

Stills and video sequences (with optional audio) in 2D, 3D, and 4 k.

Easy management and overview of open/automatic memory operations. Patient data import via keyboard, query HL7 or DICOM work list.

Save USB storage media through 2.0 and 3.0, network drives, FTP,

via DICOM or HL7 ORU/MDM. Pawjhleyn internal memory (2 TB, FIFO) Network transfer via

SMB3 security encrypted DICOM Protocol or sFTP possible

SUCTION IRRIGATION UNIPfsame manufacturer)

Line voltage: 100-240

Separately available time installable software modules.

Irrigation pressure during flow controlled procedures *: - max. 500 mmHg*. Irrigation flow during

flow controlled procedures:

-Depending on software can be from min 100ml/min to 3500ml/min. Irrigation pressure during pressure controlled procedures:- 20-150 mmHg. (Accuracy <100 mmHg: +/- 10 mmHg; Accuracy 100 - 150 mmHg: +/- 20%). Automated recognition of attached tubing sets (additional safety).

MAGNIFIED DISPLAY SYSTEM

0 ° with Integrated Illuminator, 'straight forward scope 0 °, working distance 25 - 75 cm, length 11 cm, 'autoclavable, with fiber optic light transmission incorporated and condenser lenses.

Tray for cleaning, sterilization and storage of two rigid endoscopes and one light cable. Including holder for adaptors, silicone telescope holders and lid. For rigid endoscopes with up to 10mm diameter and 20cm working length

Holding System

with quick release coupling (same Manufacturer) Consisting of:

Electrical base unit, for use with holding arm.

holding arm, with electrical locking mechanism with quick release coupling

Clamping Jaw, metal, with axial uptake, clamping range 4.8 up to 12.5 mm with quick release coupling for use with instrument and telescope sheaths. The system must be capable of indicating its status as being ready to use or battery voltage

Sinus Burr

Speed range 34000 Rpm or more rotation mode: Rotations Weight 400g or less

Sinus Burr, with integrated irrigation, curved 15°, bud drill, burr diameter 4 mm, shaft diameter 4







mm, length 12 cm, sterile, for single use, package of5,

Sinus Burr 35k, with integrated irrigation, curved 70°, diamond head, burr diameter 3.6 mm, shaft

diameter 4 mm, length 12 cm, sterile, for single use, package of 5,

Sinus Burr 35k, with integrated irrigation, curved 40°, diamond head, burr diameter 5 mm, shaft

diameter 4 mm, length 12 cm, sterile, for single use, package of 5

Tungsten Carbide Shaft Burrs, stainless, sizes 006-070, length 7 cm, set of 15 (Autoclavable)

Diamond Straight Shaft Burr, stainless, length 12.5 cm, sizes 014-070, set of11

Sterilization Tray for Hand Pieces and Burrs

Diamond cutting burrs length 7 cm, set of 15 (Autoclavable)

Intra Drill Handpiece

Intra drill handpiece angled length 12.5 cm, transmission 1:2

(40,000 to 80, 000 rpm), for use with straight shaft burrs

Intra drill handpiece angled, length 18 cm, transmission 1:2

(40,000 to 80,000 rpm), for use with straight shaft burrs

Intra Drill Handpiece, straight, length 18 cm, transmission 1:1 (40,000 to 80,000 rpm), for use with straight shaft burrs

Motor For Drill Hand Pieces Features

Self Cooling, Brushless

Autoclavable.

Torque 4Nem or more

motor and straight shaft burrs connei

ACCESSORIES:

Sterilization system complete consisting of standard accessories or following. Container Bottom

Container Lid

Wire Basket Silicone mat Wrapping Drapes

Optional Items

1. DCR Intranasal Drill to be use with shaver system

DCR [tfPVC]

3. 4 K Camera for Functional Endoscopic Sinus Surgery

"Full Mg4ulayCamera System for both Flexible & Rigid endoscopy. Camera System (CCU & Camera head) should be UHD 3840 x 2160p or better and should have backward and forward compatibilVy and modularity for futures upgrade and with latest image enhancement modules for

better image quality and identifications of the land marks and pathology for better outcomes of the surgery.

The system must comprise of following

4K UHD Video Processor CCU with integrated documentation functions for image and video capturing with 4K camera Heads with following technical data or better or Equivalent

 Connections: -lx DVI-D, 2xdisplay port 1.2 output1 X12G/3G-SDI output, 4 USB Rotation Socket, to clamp to the OR table, for standard rails, with lateral clamp for height and angle adjustment of the stand.

Connection (2 x front, 2 back)

Max. Resolution: - 3840 x 2160 p

Power Supply: - 100-120 VAC, 50/50 Hz, 200-240 VAC, 50/60 HZ

Certified to: IEC601-1, 601-2-18, CSA 22.2 No. 601, UL2601-1 and CE acc. to MDD, protection class 1 Special Features:

Should contains following image enhancement modes:

. Homogenous Illumination across the screen and dark spaces are brightened dynamically

Enhances the color contrast, without altering the user's natural color perception. Structures are represented more clearly

. Homogenous illumination and color contrast can be used together.

. Spectral change can be performed to identify tumors and normal tissues. Color change is due to spectral color shifts and color exchange.

· Control of peripheral devices i.e., light source, insufflators, recording system parameter via camera head buttons or better

· Still image capturing in 4K UHD (JPEG) Format via camera head buttons







- Video Capturing in Full HD Quality (MPEG4 Format) via Camera head buttons
- Grid and pointer mode for teaching and training purpose or Better
- Should have compatibility with further upgrades like with Flexible Scyigg or HD camera
- Laparoscopic and flexible endoscopy view can be displayed on same monitor with compatible camera heads and scopes

*4K UHD camera head

Technical Data:

Sensor. 1x1/2.3" CMOS chip. Pixels: 3840 (h) x 2160 (v) pixels.

CMOS chip supports 16:9 input format.

Lens: Integrated lens, f = 18mm

Control buttons: 3 (2 of them freely programmable)Special features:

Shifting the color spectrum, homogeneous illumination and contrast enhancement is 3x digital zoom. possible.

Light sources are controllable by camera head buttons.

Various display options for NIR/ICG fluorescence applications.

Insufflators are controllable by camera head buttons via communication bus.

Suitable camera control units can store 4K UHD images and FULL HD video clips to USB

58" or better 4K Monitor (same manufacturer) LED 300 cold light source (Same manufacturer) mass storage devices in conjunction with the camera head.

Lamp type: High performance LED. Color temperature: White light 6000 K Technical Data:

Light intensity adjustment: Continuously manual/Automatic Both Power supply: 100-240 VAC.

Certified to: IEC 60601-1, IEC 60601-2-18, UL 60601-1, CSA M601.1,

CE according to MDD, protection class I / safety class CF. Extremely long average lamp life time of 30,000 hours.

Manual control via camera head buttons from sterile field Integrated color touch screen for control of light source. Fiber optic light cable compatible with telescopes Equipment Cart with

rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs.

Equipment cart

Shelf

Base Module, equipment cart LC Cover, equipment cart LC Including:

Beam Package, equipment cart LC Shelf, wide

Drawer Unit with Lock, wide Camera holder Recording system (same Manufacturer)

Technical Data:

CPU: Intel® Core™ 17-6700 @ 3.4GHz. Internal storage: SSD (70 GB)| HDD (2 TB). Memory RAM:

Connections: 2 x 1 GB Ethernet (RJ 45), 9 x USB 2.0 & 3.0 Image formats: BMP, JPG, PNG

Resolution images: up to 3840x2160p (native resolution and aspect ratio) Resolution video clips:

up to 3840x2160p@60Hz.

Type approval: IEC 60601-1-1, EN60601-1, EN60601-2.

Classification: CE, MDD, CSA,

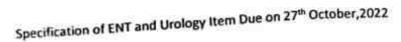
11" or better touch screen

Record of two image sources (parallel or individually).

Stills and video sequences (with optional audio) in 2D, 3D, and 4 k

Easy management and overview of open/automatic memory operafThos. Patient data import via

keyboard, query HL7 and DICOM work list.









Save USB storage media through 2.0 and 3.0, network drives, FTP, DICOM or HL7 ORU/MDM. Network transfer via SMB3 security encrypted DICOM Protocol or sFTP possible

Accessories:

Sterilization system complete consisting of standard accessories or following.

Container Bottom, Container Lid Wire Basket, Silicone mat

Wrapping Drapes

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 5 years.

2. Training for shares of 4k commisty the

en to I Vacabilly	Anesthesia & Ventilator	Item no 4
Clinical Specialty	HEO VENTILATOR WITH HUMIDIFIER Required	QTY 06
Generic Name Clinical Purpose	High frequency ventilation is a type of ventilation which utilize	s a respiratory
V. Halleson T. In James	rate greater than 4 times the normal value.	

Pre term Infant & Pends Ventilator System with High Frequency oscillatory Ventilation,

Microprocessor controlled ventilation system with HFO oscillatory ventilation.

LCD/TFT color Monitors 12" or better.

Patient Range: Pre term Infant and Peads,

Body weight range 0.3kg - 20kg.

Modes of Ventilation:

- CMV
- Pressure Control/PS
- CPAP
- SIMV
- Volume Targeting
- High Frequency oscillatory Ventilation
- NIV

CONTROL

Set & measured parameters simultaneously.

Measurement Range/Specification.

High Frequency Oscillatory Ventilation: 5-10Hz.

Inspiratory Tidal Volume: 2-150 ml or more.

Respiratory Frequency:5-150bpm

Inspiratory Pressure:5-60cm H2O

PEEP:0-20cm H₂O

I:E Ratio:4.1

FiO2/O2 Delivery:21-100%

Monitoring Parameters for set and measured value simultaneously with Digital Display

Total breath rate

Oxygen concentration FiO2

Expired Minute Volume

Expired Tidal Volume

Peak expiratory flow

1 : E Ratio

Peak Pressure

Mean airway Pressure

Lung Mechanics with pressure and volume loops

OTHERS CONTROL AND FUNCTIONS

Back up Ventilation.

Microprocessor Gas Delivery System

Breathe Circuit Compliance Compensation.

Expiratory hold/Inspiratory Hold

Pressure / Volume and Flow Trigger Sensitivity.

Trigger Sensitivity Indication

Should able to operate on single air/and gas source at 21% Oxygen.

Mounted on trolley with lockable wheel

Autoclave able Reusable Patient Tubing Circuit for Infant & Peads (O2 each)

Trend Data





ALARMS

Apnea

AC Power Failure

High and Low Expired Minute Volume

High and Low Peak Air Way Pressure

High and Low breath rate

FiO2 Variation

Low and High baseline pressure

Gas Supply Source Failure

Low battery

HUMIDIFIER:

Automatic compensation (Servo) controlled heated humidifier with temperature monitoring at air way

Humidification chamber with alarm for low/ high limits with water trap in the patient circuit.

POWER SUPPLY

220V 50Hz with internal chargeable battery backup with compressor time for minimum 1 hr.

PNEUMATICS

The unit will be driven on the central compressed air and oxygen

Should have provision of connecting external compressor.

ACCESSORIES:

Maintenance kits during warranty period.

Re-usable breathing circuits (02 each)

All standard Accessories to execute all above mention functions

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

The warranty includes (Filters, flow sensors batteries, Expiratory membrane) etc

Country / Origin of Manufacturer:





Clinical Specialty		Item No
Junicai Speciarcy		QTY 02
Generic Name	Digital Color Doppler	
Clinical Purpose	It is immediately available imaging modality with its main used and antenatal care likewise in conditions when ionizing radial indicated.	ations are contra

Color Doppler with Fully Digital Beam former having 2D / M-Mode and Doppler Facilities, (PW, HPRF, & Color Flow Imaging) with High Resolution Imaging Doppler Signal Quality; having DICOM Compatibility and upgradeable to CW and 4D imaging in convex probe.

B-MODE SPECIFICATION:

- a) Sector Scan Angle Variable in Four Steps.
- b) Viewing Depth: 40cm or more (Both in Grey Scale and Color).
- c) Frame Rate: 1500 f/sec or more.
- d) Built-in cine loop with ability to vary reverse and slow motion of display; Internal Memory 2000 /600MB or more Color Images.
- e) Real time and Freeze Image Magnification at least 10X or more with panning for Real, Freeze and Memorized Images.

M-MODE SPECIFICATION: a) Magnification: x2 or more.

- b) Sweep Speed: Slow, Medium and Fast.
- c) Color Display of M-Mode.

D-MODE SPECIFICATION:

- a) Pulse-Wave Doppler Measureable Velocity Range.
- b) HPRF Doppler.

CONTINUOUS-WAVE DOPPLER:

- a) Measurable Velocity Range: Steerable.
- b) Must have Doppler Beam Steering and Bi-Directional Stereo-Audio.
- c) Colorized Spectrum Display.
- d) Automatic Baseline and Velocity Range Control.
- e) Live Measurements for Doppler Spectrum.

5) COLOR DOPPLER MODE SPECIFICATIONS: -

Both CW and PW Doppler must be Continuous Steerable in the Color Blood Flow Image Mode in Real Time.

- 2D Image with Color, CW and PW Doppler.

Windows based System for easy usage with Programmable Control Panel Keys.

- Tissue Harmonic Imaging with 4THI or more Frequency. Power Doppler.
- Triplex Mode for Simultaneous Display of Color B/M and D-Mode Displays.
- 270db or more system dynamic range or more.

MEASUREMENT PACKAGE: To provide Comprehensive Software Package for Measurement of Distance, Circumference, Area, Time Depth, ANGLE, Velocity, Frequency, Heart Rate, Volumes, Nuchal Thickness Measurement Software, IMT measurement software to be Provided as a Standard.

SYSTEM COMPLETE WITH FOLLOWING FACILITIES AND ACCESSORIES:

- Minimum 21-Inches LCD/LED/OLED Color Monitor, with Resolution 1280 x 1024 Pixels minimum.
- Foot-Switch.
- 4 Active Transducer Connector for trans-thoracic Probes.
- DVD /CD Drive for Image Storage to be Built-in to the System.
- 500GB or more hard disk drive to be Built-in to the System.
- Built-in DICOM Compatibility. (3.0 with all components)



- Touch Command Screen Control at least 10.0 inches or more LCD/LED/OLED.
- Full DICOM (Upgradable)
- Probes must be supplied by same manufacturer.

UPGRADEABILITY: -

System Software must be Upgradable.

STANDARD PROBES:

- 2 6 MHz Multi-Frequency Convex Probe for B/M/CDI/PW, shear-wave Elastography. Probe should have single crystal technology with Pin/ pin-less connector.
- 7-15 MHz or more multifrequency linear probe with strain and small parts and MSK studies...
- 4-11MHz micro-convex pediatric probe.
- -Hockey-stick probe (frequency range 8-16Mhz).

NOTE: All Probes must be supplied by same Manufacturer. + 1Mhz deviation from the quoted frequencies of probes would be considered as minor deviation.

STANDARD RECORDING DEVICES: -

Thermal Paper Printer with 20 Rolls of Paper (Black & White) with HD.

CINEWAVE UPS Online with 30 minutes back up time for the System. IMPORTED

10) Tissue Doppler Imaging Mode.

11) Pure Wave / Pulse Inversion / Differential Tissue Harmonic Imaging to Enhance Effective.

Wide Band Frequency Range to provide Simultaneously Spatial Resolution, Contrast Resolution and increased Penetration using Two Transmission Pulses at Different Frequencies Simultaneously and Reception at Harmonic as well as Differential Component.

12) Auto Image Optimization / Quick Scan Imaging for Automatic STC / GAIN and Doppler Spectrum

Adjustment with Optimal Image Quality by using One Touch Operation.

13) B-Flow / Dynamic Flow Imaging / E-Flow / Clarify.

- 14) Trapezoid Imaging / Virtual Convex Imaging with Linear Probe. Compound / Aplipure Imaging for THI/both Frequency Compounding and Spatial Compounding in B/W and Color Mode.
- 16) Panoramic /SIESCAPE / Logic view Imaging with Measurements.
- 17) TISSUE CONTRAST ENHANCEMENT SOFTWARE/SPECKLE REDUCTION/X-View Plus.
- 18) N-Sight / Adaptive Suppression / Precision Imaging /Cross beam / XFlow or equivalent to Enhance B-Mode Imaging, Xpress / Care / DTCE or equivalent Detailed in Layers and Boundaries and Sharpened Outlines of the Lesions and reduce Cluttering.
- 19) Micro CPA / Superb Micro Imaging/vascular enhancement/B flow HD Color/ Micro-V with Color/spectral to Clearly Show Blood Flow in tiny Vessels.

Accessories :

- 1. Thermal Printer 256-Gray scale (Sony, Mitsubishi or equivalent)
- 2. UPS: on line with sine waves 2 KVA with thirty minutes back up time. (IMPORTED)
- 3, 50 High Density / High Glossy thermal paper Rolls
- 4. Gel: 20 liters
- Revolving chairs for the ultrasound operator (2 per machine)
- 7. Latest computer system with Printer for Ultrasound reporting. Package should include computer table with computer chair
- Wall-hanging X-ray film viewer.

Optional Mandatory to quote.

Complete with Hardware /needle navigation with tracking system.

Contrast Harmonic Imaging Upgradable.

3D/4D multifrequency probe.

Fibro-scan/ Attenuation Imaging for fat liver assessment.

REMOTE SERVICES



The firms will provide the remote service connectivity through modern with manufacturer's remote service center. The firms will also provide the connectivity/license to share the global resources for information, images, clinical protocols and research purposes and remained valid till the life of USG.

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

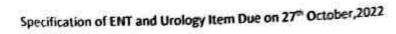
Country / Origin of Manufacturer:

USA / Europe / Japan



3/3





Clinical Specialty	Anesthesia & Ventilator	item 11b
Generic Name	ANESTHESIA WORKSTATION	QTY 01
Clinical Purpose	The anesthesia workstation is used by anesthesiolo support the administration of anesthesia. The most machine is the continuous-flow anesthetic machine an accurate and continuous supply of medical gase oxide), mixed with an accurate concentration of isoflurane), and deliver this to the patient at a safe work station incorporate a ventilator, suction indevices.	which is designed to provide es (such as oxygen and nitrous of anesthetic vapor (such as pressure and flow. Anesthesia

Anesthesia work station machine to administer anesthetic agents in precise control and flow manner.

The machine will equip to monitor the vital sign parameters and anesthetic agents during operation.

It should stay on the theatre (for mobile use) housing

3-gases O2/N2O/AIR.

Provision of communication port for sharing and transfer of data.

Unit shall comprise of the following components:

Electronically/digitally control, mixing and monitoring of anesthetic gases (O2, AIR, and N2O) both by digits as well as virtual tubes.

Built-in illumination system.

Non-interchangeable pipeline inlets

Pipeline & cylinder gauges for O2, N2O and AIR

Central gas/ electronically driven unit.

Pin index cylinder yokes for Oxygen & N2O (One each), as backup.

Pin index type cylinders will be provided with the unit (2xO2 and 2xN2O: BS standard)

Gas outlet and O2 flush control

1 auxiliary O2 outlet (preferably electronics).

Two Lockable castors

Stainless steel/fiber work surface

Absorber hag support arm

Integrated heated breathing system.

Three gas electronic digital flow meters for precise control and monitoring of gases.

Drawer unit 5-6" high.

Power outlet with 3/4 socket outlets to connect the auxiliary equipment.

CO2 absorber 800 - 1,500 gm or better with changeable during the surgery.

Complete with valve for bag/ventilator, manometer, 0.5, 1.0, 1.5, 2 & 3 L breathing bags,

Breathing tube (adult and paeds).

Mounts and Y-piece.

Additional breathing hose and connector (adult and paeds).

Scavenging system passive / active type.

Suction system.

ANESTHESIA VENTILATOR:

Anesthesia Ventilator with minimum 12" or more LCD /TFT Screen.

The ventilator shall be capable of ventilating Neonates /pediatric patients/Adult Patients) The ventilator

shall have following features as a minimum requirement:

Volume Preset Time Cycled Ventilator (IPPV Mode)

Manual, spontaneous; Volume Mode (IPPV) / CMV

Pressure Mode (PCV)

Pressure Support (PS)





Pressure Control (PC)

pressure Controlled and pressure support Modes

Synchronized volume controlled ventilation (SIMV) with PS

pS with apnea back up

Breathing Mode Selection (Standby / Volume / Spontaneous and Pressure)

Built in Oxygen Monitor

Inverse I:E ratio Capability

Gas Specific Input Connectors (Air or Oxygen ISO or ANSI Standards)

Tidal Volume P.C 5ml to 1400ml. & VC 20-1400ml.

Rate or Frequency 4 to 80 bpm

PEEP 3 to 20 cm of H2O.

Inspiratory Pressure Limit

Pressure and Volume (Spirometry) Loops / Curve.

Oxygen / Electronically Driven

Power Supply 220 VAC , 50 Hz

Battery Backup (60 Minutes or more)

Low / High FiO2 Alarm

Incorrect Rate or Ratio alarm

Mains Failure alarm

Low battery alarm.

Oxygen Senor: Paramagnetic

Hypoxic Device.

The ventilator shall be supplied with complete drive hose and power cable.

Note: Annual maintenance kits (needs to replace annually) will be included in the warranty period as per manufacturer's guidelines.

Two pre calibrated Vaporizers of Isoflurane & Sevoflurane vaporizer, temperature and flow

Cardiac bypass mode / HLM / Spontaneous Mode.

Anesthetic Agent monitoring (with in the anesthesia machine)

220V, 50 Hz operated.

Battery backup of at least 60 minutes

Online UPS with backup of 30 minutes for complete unit.

Temperature probe Qty 3

Skin Probe Qty 3

MONITORING:

Modular Vital sign monitor.

Size of minimum 17" touch screen or more for display of vital sign parameters of neonates, infants and adults.

Measurement of ECG

NIBP with re-usable single hose cuff for neonates, child and small adults

SpO2 (Massimo Technology / Equivalent motion tolerant technology) with re-usable cable and sensors for neonates, infant, adult and small adults sizes (Qty I.O specify).

HR

Temperature with nasal probe.

Respiration

Four Channel IBP

EtCO2 main / side stream (Complete with all sensors probes, reusable).

Note: Monitors must be supplied by the same manufacturer and must be compatible with the machine and ventilator.

ACCESSORIES:

NIBP Cuff-Oty 2

2 SpO₂ probe QTY 2

Temperature probe QTY 2



Skin Probe QTY 2

ECG Leads QTY 2

Four Channel IBP leads QTY 2

Optional:

NIRS (Near Infra-Red Spectroscopy unit for Cerebral Pulse Oximetry for pediatric patients. Complete with main unit with monitor and sensors including disposable head sensor/probe (Qty 50 Nos.) NMT Neuro muscular transmission.

BIS Monitoring.

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

The warranty of equipment will be including batteries, oxygen sensor, all kinds of filters and flow sensor.

Country / Origin of Manufacturer:







Clinical Specialty	ENT	Item No 12
Generic Name	Cochlear Implantation Set	QTY 2 SETS
Clinical Purpose	A Cochlear Implant is a device that can be surp cochlea to stimulate it to cause hearing. It con placed under the skin in the bony part behind the with several electrodes (usually 22 now), that is set is used to implant the cochlear device.	he ear. The receiver has a probe

Surgical Handle, No. 3, length 12.5 cm, for blades

PLESTER Retractor. 2 x 2 prongs, 11 cm

WULLSTEIN Retractor, 11 cm

ANDERSON-ADSON Retractor, 4 x 4 prongs, sharp, curved, length 20 cm

OLIVECRONA Brain Spatula, double ended, angular, 11 and 13 mm wide, concav, eleastic, length 18 cm

OLIVECRONA Brain Spatula, double anded, angular, 7 and 9 mm wide, concav, elastic, length 18 cm

PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 20 cm, 5 Fr.

PLESTER Suction Tube, with grip plate, cutt-off hole and stylet, LUER, 20 cm, 7 Fr.Z

PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 20 cm, 9 Fr.

Suction Cannula, LUER-Lock, working length 6 mm, O.D.: 0.5 mm

Suction Cannula, angular, LUER- Lock, working length 6 cm, O.D. 0.7 mm

WULLSTEIN Adaptor, for suction cannula with cut-off hole, LUER cone, 10 cm.

Octogonal handle with LUER-cone, straight, length 17 cm Diamond Burr, cylindrical, diameter 5mm, length 10mm, for Cochlear Implant surgery, with smooth bottom to protect the dura, with straigt shaft diameter 2.35mm, length 44mm.

Diamond Burr, shaft diameter 2.35 mm, length 70 mm, diameter 0.6 mm

Diamond Burr, shaft diameter 2.35 mm, length 70 mm, diameter 1.0 mm

Diamond Burr, shaft diameter 2.35 mm, length 70 mm, diameter 1.4 mm

Seeker, delicate, angled 25°, with ball end 1 mm O.D., length 16 cm

Seeker, delicate, angled 25°, with ball end 1.5 mm O.D., length 16 cm

Forceps, for insertion of cochlear electrodes, nucleus 24 contour, curved to left, working length 6 cm Forceps, for insertion of cochlear electrodes, nucleus 24 contour, curved to right, working length 6 cm

Micro Guiding Instrument for electrodes array, length 16 cm, claw-shaped, tip 13° angled upwards Micro Guiding Instrument for electrodes array, length 16 cm, claw-shaped, tip 13° angled downwards

Hook, footplate, 16 cm, 0.2 mm. PLESTER Hook, footplate, 16 cm, 0.6 mm.

LENARZ Retractor, 43 mm x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm

SCHOENBORN Thymus Retractor, length 20.5 cm

RANEY Applying and Removing Forceps for scalp hemostasis clips, length 16 cm

Needle Holder, tungsten carbide inserts, 15 cm.

Dissecting- and Ligature Forceps, straight, smooth jaws, length 9.5 cm

FREER Elevator, double-ended, length 20 cm.

PLESTER Elevator, 18 cm, 8 mm wide.

ALLIS Dissecting Forceps, toothed, length 20 cm.

WULLSTEIN Forceps, 15 cm, Dressing

Dressing Forceps, length 14.5 cm, delicate size

ADSON-BROWN Tissue Forceps, non-traumatic, fine side grasping teeth, length 12 cm

Bipolar Coagulating Forceps, insulated, bayonet-shaped, slim shaft, tip 0.5 mm, length 19 cm, for use with bipolar high frequency cord

Preparation Plate, glass, 13 cm x 8 cm.

Accessories:







Sterilization system complete consisting of standard set or as follows. Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes.

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:





Clinical Specialty	ENT	Item No 13
Generie Name	Middle Ear Micro Ear Surgery Set	QTY I SET
Clinical Purpose	To restore hearing loss, which is usually due to otos performed. Stapedectomy is the removal of all or pa bones in the middle ear, and replacement with a tin	art of the stapes, one of the

HARTMANN Nasal Speculum, for adults, length 13cm PLESTER Elevator, 18 cm, 8mm wide. LEMPERT Raspatory, width 3 mm, length 19 cm Tissue Forceps, 1x2 teeth, length 11.5 cm WULLSTEIN Forceps, serrated, length 15 cm Scissors, curved, sharp/blunt, length 12 cm PLESTER Retractor, 2x2 prongs, length 11cm

PLESTER Retractor, 2 prongs on right, full blade on left, length 11 cm PLESTER Retractor, 2 prongs on left, full blade on right, length 11 cm WILLIGER Retractor, 4 prongs, sharp, lenajTT*SBcm

Surgical Handle, size 3, length 12.5 cm, for Blades Blade, size 15, non-sterile,

Blade size 11, non-sterile, package of 100 Blade size 10, non-sterile, packa

100 Scissors, curved, sharp/blunt, length 14.5cm

ROCHESTER-PEAN Haemostatic Forceps, straight, length 14cm

Needle Holder, tungsten carbide inserts, length 13 cm HALSTEAD "

straight, length 12.5 cm HALSTEAD "Mosquito" Artery Forceps,

Towel Forceps, length9 cm

GUILFORD-WRIGHT Wire Cutter, serrated, length 10 cm SC

HARTMANN Ear Speculum, standard mosquitar Artery Forceps, 12.5 cm

BACKHAUS of IECHT Wire Bending diameter 5mm, length 3.6cm

Instrument Guard, teflon, autoclavable, for mic

working length 8cm, length 11.5cm

Micro fore and micro scissors with

HARTMANN Ear Speculum, standard model, outer diameter 5 mm, length 3.6cm HARTMANN Ear Speculum standard model, outer diameter 6 mm, length 3.6cm HARTMANN Ear Speculum, standard model, outer diameter 7.5 mm, length 3.6 cm HARTMANN Ear Forceps, extra delicate, serrated, 1 x4.5 mm, working length 8cfn FISCH Ear Forceps, extra delicate, pointed, serrated, 1x4.5mm, working length 8cm HARTMANN Ear Forceps, serrated, working length 8cm WULLSTEIN Ear Forceps, extra delicate, oval cupped jaws, 0.9mm, working length 8cm HARTMANN Ear Forceps, round cupped jaws, diameter 2 mm, working length 8cm BELLUCCI Scissors, delicate standard model, blade length 8 mm, working length 8cm HOUSE- DIETER Malleus Nipper, up biting, working length 8cm Me GEE Wire Crimper, straight, working length

Suction Tubeengular, LUER-Lock, outer diameter 0.7 mm, working length 6 cm Suction Tube, angular, LUER-Lock, outer diameter 1mm, working length 6cm

Suction Tube, angular, LUER-Lock, outer diameter 1.3 mm, working length 6 cm Suction Tube,

angular, LUER-Lock, outer diameter 1.5 mm, working length 6 cm Suction Tube, angular,

LUER- Lock, outer diameter 2mm, working length 6cm

Suction Handle, with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 7 Fr., length 20 cm PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 9 Fr., length 20 cm Ear Hook, without ball end, size 1,

Seeker, ball end angled 45°, 15.5 cm, size 3. BUCK Ear Curette, sharp, size 00, length 14.5cm BUCK

Curette, sharp, 14.5cm, size 0

PLESTER Hook, 15.5 cm, retrospective, 2 mm, to granulate the underside of the tympanic membrane.

HOUSE Curette, large, spoon sizes 2 x 3.2 mm and 1.6 x 2.6 mm, length 15 cm HOUSE Curette, small, spoon sizes 1 x 1.6 mm and 1.3 x 2 mm, length 15 cm HEERMANN Hook, reinforced,





16cm. retrospective, 0.8mm.

Pick 45°. 16 cm, 0.5 mm KLEY Knife. Footplate, 16cm Hook, footplate, 16cm, 0.2mm.PLESTERHook, footplate, 16 cm, 0.6mm. FISCH Perforator, 16cm, diameter: 0.3mm.

PLESTER Guide, 15.5 cm Pick 45°, 16cm, 1.0mm

PLESTER Knife, round, vertical, 16 cm, standard size 3.5 x 2.5 mm Round Knife 45°,

16 cm. diameter: 2.0 mm. PLESTER Sickle Knife, double-edged, standard model, slightly curved, length 16cm

WULLSTEINNeedle.16.5cm, light curve.

Pick90°,16cm,0.4mm

Pick90°,16cm,0.6mm

Pick90°.16cm,0.8mm

Pick90°,16cm,1.0mm

Accessories:

Sterilization system complete consisting of standard accessories or as follows Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including Warranty: consumable items for 03 years.

Country / Origin of Manufacturer:







Clinical Specialty	ENT	Item no 14
Generic Name	Middle Ear Surgery Tympanoplasty and Stapedotomy Set	QTY I SET
Clinical Purpose Tympanoplasty is the surgical operation performed for their construction of the eardrum (tympanic membrane) and/or the small bones of the middle ear. Stapedectomy is a surgical procedure of the middle ear performed to improve hearing		

Retractor, 2x2 prongs, length 13 cm Scissors, curved, length 15 cm

"Mosquito" Artery Forceps, micro-model, curved, length 12.5 cm Scissors, extra

delicate, curved, sharp/sharp,lengthlO.5cm

Suction and Irrigation Tube, conical, suction tube outer diameter

3.2mm, irrigation tube outer diameter 2mm, working length 9.5 cm

Suction and Irrigation Tube, cylindrical, suction tube outer diameter 1.9 mm,nÿrj;ation tube outer

diameter 1.9 mm, working length 9.5cm

Suction and Irrigation Tube, cylindrical, suction tube outer diameter

2.5mm, irrigation tube outer diameter 2mm, working length 9.5 cm

Surgical Handle, Fig.3, length 12.5cm, for Blades

Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side,

lengthl6 cm

Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 mm, length 15Cm

Jeweler Forceps, fine, pointed, soft spring-action, length 11cm Tissue

Forceps, lx2teeth, slender, softspring-action, lengthl3cm Forceps, serrated, soft

spring-action, length 15cm Raspatory, width 10mm, length 16 cm

Raspatory, curved, width4mm, lengthl6.5cm

Suction Tube, angular, with grip plate, er diameter 1.2 mm, working length 9cm

Suction Tube, angular, vntmVrip plate, outer diameter 1.5 mm, working length 9cm

Suction Tube, angular, with grip plate, outer diameter 2 mm, working length 9 cm

Suction Tube, angular, with grip plate, outer diameter2.2mm, working length 9 cm

SuctionTube, angular, malleable, LUER-Lock, outer diameter

0.7 mm, working length 7 cm, for use with Adaptor 204250 for use with Handle

Suction Tube, angular, malleable, LUER-Lock, outer diameter1 mm, working length7 cm, for

use with Adaptor

Suction Handle, with long thumb grip, cut-off hole diameter

1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm, for use with Suction Tubes,

Micro Raspatory, single curved to right, length 16 cm Micro Raspatory, single curved to left, length

16 cm Round Knife 45°, diameter 1 mm, length 16 cm Tenotome, sickle-shaped, extra delicate,







length 16 cmPick,45°, size 0.5 mm, length 16 cm pick.45°, size 1 mm, length 16 cm pick, 459, size 1.5 mm, length 16 cmPick, 45°, size 2.5 mm, length 16 cm Pick, 90°, size 0.5 mm, length 16 cm pick.90°, size1 mm, length 16cm pick, 90°, size 1.5mm, length 16cm Pick.90°, size 2 mm, length 16cm Manual Perforator, diameter 0.3 mm, length 16 cm Perforator, diameter 0,4 mm, length 16 cm Perforator, diameter 0.5 mm, length 16 cm Perforator, diameter 0.6mm, length Anterior Footplate Elevator, tip angled upwards 90°, 0.2 mm,lengthl6 cm Anterior Footplate Elevator, tip angled downwards 90°, 0.2 mm, length 16cm Caliper, angled shaft, diameter 0.4 mm, marker pin at 10 mm, length 16 cm .0 mm, length16 cm Caliper, angled shaft, diameter 0.6 mm, marker pin at 1 y Measuring Rod, length 16 cm, Marker pins at 3 mm, 4 mm, 5 mm Ear Forceps, extra delicate, oval cupped jaws, 0.9 mm, working length 8cm Ear Forceps, extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm Ear Forceps, round cupped jaws, diameter 2mm, working length 8 cm Ear Forceps, extra delicate, serratMjÿy4.iVhm, working length 8cm Ear Forceps, extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm Ear Forceps, extra delicate, smooth, 1 x 4.5 mm, working length 8cm Micro Scissors, exQlaNtrate scissor blades, with thin shaft, blade length 3mm, working length 8cm Micro Scissors, extra delicate scissor blades, blade length 3mm, working length 8cm working#9ng1C7.5 cm Scissors, for crurotomy, curved to left, workinglength7.5cm Malleus Nipper, extra delicate, up biting, width 0.8 mm, working length 8 cm

Scissors, blade 7 mm, extra delicate, working length 8 cm Scissors, for crurotomy, curved to right. Metal Tray, for sterilizing and storage of ear instruments, perforated, base with holder for 20 straight ear micro instruments with octagonal handle, lid with silicone bridges, external dimensions(WXDXH): 275x175x36mm

Wire mash tray for cleaning, sterilization, transport and storage of Instruments, Including hole plate walls and fold away handles. External dimensions (WXDXH): 480x 250x60mm.

Accessories:

Sterilization system complete consisting of standard accessories or as follows Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes

Warranty:







Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:





Clinical Specialty	ENT	Item No 15
Generic Name	Flexible Nasopharyngoscope for ENT	QTY I
Clinical Purpose	A diagnostic procedure that examine the nasal passage ways and pharynx with an instruments outfitted with an optical system.	
TECHNICAL SPEC	CIFICATIONS	

Shaft Diameter: 3.8 mm or less Working Length: 300 mm or more Field of View: 70 Degree or Better Angulations up/down: 100 or better Depth of view: 5-50 mm or better Fiber optic light cable Light source LED

Accessories:

Sterilization system complete

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

& Training &



Clinical Specialty	ENT	m No 18
Generic Name	Operating Head Light	QTY 4
Clinical Purpose	Head Light used during inspection and surgery of Ear Nose and Throat	

Headlight with double lens system and Y-fiber optic light cable, > 175,000 lux, illuminated area adjustable from 20-80 mm with 40 cm or better working distance, with removable and sterilizable focus handle,

Y-Fiber Optic Light Cable, with straight plug, diameter 2 x 2.5 mm, length 290 cm LED 150 WATT or batter light source High-Performance LED Light with one light outlet, power supply 100 - 240 VAC, 50/60 Hz including: Mains cord

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:







	OT General Surgery	Item No 20
Generic Name	HEAVY DUTY SUCTION MACHINE	QTY 3
Clinical Purpose	Heavy duty suction machine is used to keep the airways clean and in operation theater for suction of various secretions/fluids from various cavities of body.	

Reciprocating, oil free pump mechanism.

Heavy duty Mobile Suction Unit with twin jars (Polysulfone / Polycarbonate type) of capacity up to 4 or 5 liter each, Autoclave able.

Aspiration rate up to 40-50 liters/minutes or more at 650-900mm.Hg

Vacuum continuously adjustable

Triple flow safety device

Change over valve

Suction tubing of silicone with coupling connection for each jar

Noise Level 45 dB or less.

220V/50Hz.

Accessories:

- •10 x bacterial filter
- ·Original trolley with lockable wheels

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:







Tinical Specialty	ENT	Item No 21
ENERIC NAME	RIGID BRONCHOSCOPE WITH OPTICAL FORCEPS	QTY
Clinical Purpose	Bronchoscopy is an endoscopic technique of visualizing the inside of for diagnostic and therapeutic purposes. An instrument (bronchoscopinto the airways, usually through the nose or mouth, or occasionally tracheostomy. Rigid bronchoscopy is used for retrieving foreign objective.	ne) is inserted through a
TECHNICAL SPEC	CIFICATIONS	
Bronchoscope, size 4 30cm Bronchoscope, 40cm Prismatic Light equivalent Glass Wir Rubber Telescope Gr FLUVOG Adaptor w keyhole opening, mo Adjustable Magnifie Injection Cannula/ e outer diameter 3.5m Straight Forward Te transmission incorpe Optical Coin Forcer forced controlled ha code :green O Optical Alligator Fo forced Controlled h Optical Forceps, wi bodies, for use with Forceps alligator, fo mm, working lengt Forceps, for peanut mm, working lengt Rigid Suction Tube working length 35c Sponge Holder, wo Foreign Body Basi LED Cold Light Fo Mains cord Fiber Optic Light Accessories:		ator quivalent, light be
Warranty:	ecessories is included in 03 years contract. Comprehensive warranty of all	parts including
Country / Origin		

Clinical Specialty	ENT	Item No 22
Generic Name	Rigid Esophagoscope Peads with Optical Forceps	QTY
Clinical Purpose	Esophagoscopy is a diagnostic procedure to evaluate the esophagus or swallowing passage. Problems identified can include foreign objects, inflammation, signs of gastro esophageal reflux disease, narrowing or tumor growths. The procedure is performed under a general anesthetic in children. It can be performed with soft flexible scopes or rigid scopes depending on the situation	

Esophagoscope Tube, length 30 cm, size 6Esophagoscope Tube, length 30 cm, size 5 EsophagoscopeTube, length18, 5cm, size 3

Prismatic Light Deflector autoclave able, with connection to fiber optic light

Telescope Guide for use with telescopes or optical forceps

Telescope Bridge for connection with Telescope

Straight Forward Telescope 0°, diameter 2.9mm, length 36cm, autoclaveable, fiber optic light transmission incorporated, color code: green

Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2x2 teeth, for use with telescope forced controlled handle for removal of coins and flat f lies

Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes,'S for use with telescope ,forced controlled handle for removal of hard foreign bodies

Optical Forceps, with spring- action handle for controlled removal of peanuts and soft foreign bodies, for use with Telescope

Forceps alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5mm, working length 35Cm

Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws,

sheath diameter 1.5 mm, working length 35 cm

Forceps, for peanuts and soft foreign bodies, double- action jaws, sheath diameter 1.5mm, working length 35cm

Rigid Suction Tube, outer diameter 3 mm, working length 35 cm Cotton Carrier, working length 35 cm

Sponge Holder, working length 35cm

Foreign Body Basket with ring handle, working length 35cm

LED High-Performance LED Cold Light Fountain with one light outlet, Q 1_

including:

Mains cord Fiber Optic Light Cable, with straight connector, diameter

3.5mm, length180cm

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan







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Clinical Specialty	ENT	Item No 16 & 23
Generic Name	Mastoid Drill System	
Clinical Purpose	The removal of bone from the mastoid process. It the ear canal and contains air cells which drain in removal becomes necessary if they are diseased of infected skin cyst in the middle ear and mastoid,	ito the middle ear. Their or if a cholesteatoma, an
TECHNICAL SPEC	CIFICATIONS	Quall

Consisting Of:

Control Unit

High Speed Electronic Micro Motor 80,000 rpm or better with Cable Single / double Foot Control including connecting cable Standard Irrigation set

INTRA DRILL HANDPIECES:

INTRA DRILL HANDPIECE STRAIGHT FOR EAR QTY 02

Drill Headpiece, straight, length 7 cm or more, with rotating speed 80,000 rpm or better for use with Detachable irrigation tube use with straight shaft tungsten, carbide, stainless steel and diamond burrs.

INTRA DRILL HANDPIECE ANGLED FOR EAR QTY 02

Drill Headpiece, angled, length 7 cm or more, with rotating speed 80,000 rpm or better for use with detachable irrigation tube use with straight shaft tungsten, carbide, stainless steel and diamond burrs

DIAMOND CUTTING BURRS SET

Diamond cutting burrs length 7 cm or more, set of 15 or more (Autoclavable) diameter includes 0.6, 0.7, 0.8, 1, 1.4, 1.8, 2.3, 2.7, 3.1, 3.5, 4, 4.5, 5, 6, 7mm

TUNGSTEN CARBIDE BURRS SET

Tungsten Carbide Shaft Burrs, stainless, length 7 cm or more, set of 15 or more (Autoclavable)

Diameter includes 0.5,0.6. 0.7, 0.8, 1, 1.4, 1.8, 2.3, 2.7, 3.1, 3.5, 4, 4.5, 5, 6, 7, 8 mm

Cleaning Brushes Lubrication oil spray 5 bottels.

High Speed Electronic Micro Motor 80,000 rpm or better with Cable Single / double Foot Control

including connecting cable Standard Irrigation set.

INTRA DRILL HANDPIECES:

Shaver Debrider hand Piece QTY 02

Attachment required 25 with different size as per Enduser requirement,

Note: Two mastoid Drills complete setup with motors with one extra hand piece along with the standard

One Shaver Debrider with complete setup and motor with one extra hand piece along with the standard

Accessories: Sterilization system complete

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including

consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

Item No 17 ENT Clinical Specialty Patient Nerve Monitor Generic Name





Dissus Will' Carpy Jon Stewn Delaith abachul:

Clinical Specialty	ENT	Item No 24
Generic Name	Mastoidectomy Set	QTY I
Clinical Purpose	A mastoidectomy is a procedure performed to remove to can be done as part of treatment for mastoiditis, chronic or cholesteatoma. In addition, it is sometimes per- procedures (cochlear implant) or for access to the midd	formed as part of other

Periost Knife.13cm.Elevator Version

Surgical Handle, No. 3, length 12.5 cm, for blades Blade No.10, sterile, package of 100

Blade No. 11, sterile, package of 100 BladeNo.15, sterile, package of 100

HARTMANN Nasal Speculum, for adults, length 13 cm WEITLANER Retractor, 3x4 prongs, sharp, length 16 cm WEITLANER Retractor, 3x4 prongs, sharp, length 13 cm WULLSTEIN Redactor, 11 cm VOLKMANN Retractor, length 21 cm, 3 prongs, sharp LANGENBECK Retractor, length 21.5 cm, size 33 mm x 14 mm FARABEUF Elevator, 18.0cm, 11mm wide.

LEMPERT Elevator, curved, 7mm wide, length 18cm FREER Elevator, double-ended, length

20cm. Mastoid Gouge, 14cm 3mm wide

Mastoid Gouge, 14cm, 5mm wide

Mastoid Gouge, 14 cm, 7 mm wide Mastoid Gouge, 14 cm, 9 mm*i

mm wide Mastoid Chisel, 14 cm 5 mm wide Mastoid Chisel, 14 cm, 7 mm wide COTTLE

Mallet, length 18cm

KERRISON Rongeur, working length 11 cm, size 2 JANSEN Rongeur, bayonet,17cm

HOUSE Curette, large, spoon sizes 2 x 3.2 mm and LtN 2.6 mm, length 15 cm LEMPERT Mastoid

Curette, 21cm, sizeOOOO

SPRATT Mastoid Curette, 16.5 cm, size 0, SPRATT Mastoid Curette, 17 cm,

size 1. HALSTEAD Mosquito Forceps, 12.5cm, curved.

ROCHESTER-PEAN Haemostatic Forceps, straight, length 14 cm

ROCHESTER- PEAN Haemostatic Forceps, curved, length 14cm

OCHSNER-KOCHER Haemostatic Forceps, 1x2 teeth, straight, length 14 cm ALLIS Forceps,

4 x5 teeth, length 15 cm T1

ADSON Dressing Forceps, serrated, 12 cm. ADSONT issue Forceps,1x2 teeth12cm.

ADSON-BROWN Tissue Forceps, non-traumatic, fine side grasping teeth, length 12cm

astoid Chisel, 14 cm 3

Dressing Forceps, length 14.5cm, standard size

Dressing Forceps, length 14.5cm, delicate size

Tissue Forceps, 1x2 teeth, length 14.5 cm, standard size Tissue Forceps, 1x2 teeth, length 14.5 cm, medium size Tissue Forceps, 1x2 teeth, length 14.5 cm, delicate size JOBSON-HORNE Probe.

With serrated and ring end, 18 cm Secker, ball end angled 45°, 15.5 cm, size3.

Scissors, delicate, 10 cm, curved STEVENS Scissors, curved, 10.5 cm JOSEPH Scissors, 14cm, curved. METZENBAUM Scissors, curved, 14 cm. Scissors, straight, length 14.5 cm, blunt/sharp

MAYO Scissors, curved, length 15 cm

BARON Suction Tube, with cut-off hole, LUER, working length 7.5 cm O.D. 1 mm BARON Suction Tube with cut-off hole, LUER, working length 7.5 cm, O.D. 1.7 mm BARON Suction Tube, with cut-

off hole, LUER, working length7.5cm,O.D 2.3mm FERGUSON Suction Tube, with cut- off hole and stylet, LUER, working length 11 cm, 6 Fr. FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 11 cm, 9

Fr.FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 11 cm,12 cm.

Fr.ZOELLNER Suction Tube, LUER-Lock, 15cm, O.D.2.5mm.

Suction Tip for . 4cm, O.D.0.5mm.

Suction Tip for, 4cm, O.D.O. 7mm.

Suction Tip for, 4 cm, O.D. 0.9 mm. Suction Tip for, 4cm, O.D.1.2mm.

Needle Holder, tungsten carbide inserts, 13 cm. Needle Holder, tungsten carbide inserts, 15 cm.





BACKHAUS Towel Forceps, length 11cm DUPLAY Dressing Forceps, curved, with ratchet, length 21cm

Cup Medicine, stainless steel, 25 cc, 28 mm high, diameter 60 mm Cup Medicine, stainless steel, 60 cc, 33 mm high, diameter 70 mm Cup Medicine, stainless steel, IOOcc, 30 mm high, diameter somm

Accessories:

Sterilization system complete consisting of standard set or as follows. Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drap

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:





Clinical Specialty	ENT	Item No 25
Generic Name	Myringotomy Set	QTY I
Clinical Purpose	A myringotomy, sometimes called by othe which a tiny incision is created in the eards pressure caused by excessive buildup of fluear	rum (tympanic membrane) to relieve

Ear Speculum, 3.6 cm, O.D. 5 mm Ear Speculum, 3.6 cm O.D. 6 mm Ear Speculum, 3.6cm O.D.7.5mm Ear Forceps, very fine, serrated, working length 8 cm Ear Curette, blunt,14.5 cm size 1 Sickle Knife, double-edged, standard model, slightly curved, length 16 cm Needle, 16.5 cm, light curve:

Pick90°.16cm,0.8mm

Adaptor. For suction cannulas with cut-off hole, LUER cone 5.5 cm. Suction Cannula, straight, LUER- Lock, malleable, 10 cm,O.D.1.0 mm Suction Cannula, straight, LUER- Lock, malleable, 10 cm,O.D.1.3 mm Suction Cannula, straight, LUER- Lock, malleable, 10 cm,v¥*1.5 mm Suction Cannula, straight, LUER- Lock, malleable, 10 cm,O.D.2.0 mm Groumet Gun Instrument Rack for 5 instruments with holder for ear specula, for ventilation tube set, may be used with metal case

Metal Case, perforated, lid detachable, size20xl0x4 cm Tele-Otoscope with Straight Forward Telescopes 0°, diame fiber optic light transmission incorporated, color r im. length 6 cm, auto-clavable,

Accessories:

Sterilization system complete consisting of standard accessories or as follows Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:







Clinical Specialty	ENT	Item No 26 & 36
Generic Name	ENT Unit Combine	QTY 3+1
Clinical Purpose	The ENT treatment unit with an integrated su module, compressed air system and an innov	action system, ear irrigation rative LED light module

ENT unit combined with patient chair and stool allows the operator to manage a complete and professional activity for examination, treatment and diagnostics.

The unit shall have solid and mobile case with antistatic castors with brakes

The structure coating shall be painted with SS/Antibacterial paint with a transparent gloss layer for protection against external agents.

Drawer Module complete with instrument trays:

2 to 4 Drawers, UV lamp drawer in built

instrument tablet:

Visualization and control of all instruments related to suction or insufflations and of the digital vacuum and pressure systems.

Suction System:

Noise less Suction system with oil or dry pump having suction capaciffh30 litres/minor more Wastage collection jarl litter or more

System with assorted kit of suction cannulas.

Insufflation System:

Insufflution with flow regulation system and Pulitzer olive

Integrated LED Light Sources:

Double neutral LED/Halogen light sources LED/Halogen light source with automatic switching Light intensity shall be adjustable by touch screen.

Laryns mirror quick heating

Compressed oir system complete with:

Air syringe for spray olives

2 atomizers:

2 hottle holders for medicaments.

Rinsing system of suction tubes

Rinsing system of suction tubes shall be complete with automatic discharge outside ON/OFF switch and he settable by touch sereen on the instrument tablet.

Endoscope supports

2 to 4 (in specify) endoscope supports: 2 long supports for flexible (elean and dirty) and 6 for rigid endoscopes (elean and dirty).

Endoscope Wurmer

Timed system for simultaneous preheating of endoscope support from 37-to 38.

Head Light:

With Headband

ENT Chair

Professional chair designed for ENT examination in specialized departments that provide comfort

for both patient and operator.

Pedal for all the independent movements' control (High quality motors with lifting capability and operating electrically and separately the up/down, backrest, seat and leg rest movements.

Inclination in Trendelenburg position.

Synchronized backrest-seat movement to grant security

Automatic discharge system of suction

Rigid Endoscopes2.7MM 0°or30°

Rigid Endoscopes4 MM0°or30°

Adult Flexible Nasopharyngoscope Video

Capturing Software with camera ENT



Microscope with articulated arm Integrated UV compartment in drawer

Doctor's Stool

Accessories:

Sterilization system complete

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including Warranty: consumable items for 05 years.

Country / Origin of Manufacturer:





Clinical Specialty	OT GERNAL SURGERY	Item No 29
Generic Name	PULSE OXYMETER	QTY 4
Clinical Purpose	A pulse oximeter is a medical device that indirectly monitors the oxygen saturation of a patient's blood (as opposed to measuring oxygen saturation directly through a blood sample) and changes in blood volume in the skin producing a photoplethysmogram.	

Non-invasive measurement of oxygen saturation and pulse rate with LCD screen. Display of oxygen saturation and pulse rate. Oxygen saturation measurement range from 0 -100%. Pulse strength perfusion indication Capability of Plethysmography. Pulse rate measurement from 20-250 bpm. Visual and andible indication of alarms. High and low alarms settings. Power of 220 V/50 Hz

ACCESSORIES:

Complete with standard accessories

Pediatrics

sensor Reuseable QTY 03 each

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:







Clinical Specialty	ENT	
		Item No 30
GENERIC NAME	Laryngoscope set with Optics	QTY 2
Clinical Purpose	Laryngoscopy is a visual examination below the voice box (larynx) containing the vocal cords is procedure for discovering the causes of voice and throat or ear, difficulty in swallowing, narrowing stenosis), and blockages in the airway	located. It is an effective

Laryngoscope Adult Size Length 17 to 18 cm with Telescope guide tube integrated inside the lumen with integrated 15 " Telescope Length 18cm Dia 4mm autoclave able, fiber optic light transmission incorporated, (KLEINSASSER) Operating Laryngoscope for adults, large, length 17 to 18 cm

KLEINSASSER Operating Laryngoscope, for adults, medium, length 17 to 18 cm (for anterior commissure)

(KLEINSASSER) Operating Laryngoscope for children, small, length 15 cm

(KLEINSASSER) Operating Laryngoscope for infants, small, length 13 cm

Clip for proximal illumination

Fiber Optic Light Carrier, for distal illumination, working length 14 cm, for use with Laryngoscopes and Diverticulo scopes

Fiber Optic Light Carrier for distal illumination, working length 7.5 cm, for use with Laryngoscopes (KLEINSASSER) / Laser Laryngoscope modified for CO2-LASER surgery, for children, with lateral outer channels for suction tube to remove vapor and/or for fiber optic light carrier, length 15 cm. Laryngoscope Holder and Chest Support.

Including:

Laryngoscope Holder, with adjustment wheel / chest support for adult Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm.

(KLEINSASSER) Forceps, straight, with 2 mm cupped jaws, with cleaning connector, working length 23

(KLEINSASSER) Forceps, curved upwards, with 2 mm cupped jaws, with cleaning connector, working

(KLEINSASSER) Forceps, curved to right, with 2 mm cupped jaws, with cleaning connector, working

(KLEINSASSER)Forceps, curved to left, with 2 mm cupped jaws, with cleaning connector, working length

(KLEINSASSER) Miniature Forceps, straight, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm

(KLEINSASSER) Miniature Forceps, curved upwards, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm (KLEINSASSER) Miniature Forceps, curved to right, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm (KLEINSASSER) Miniature Grasping Forceps, straight, serrated, sheath conically reinforced from distal to proximal end, with cleaning connector, working length

(KLEINSASSER) Miniature Grasping Forceps, curved to right, serrated, sheath conically reinforced from

distal to proximal end, with cleaning connector, working length 23 cm (KLEINSASSER) Scissors, straight, with cleaning connector, working length 23 cm Micro Forceps,

straight, with 1 mm cupped jaws, with cleaning connector, working length 20 cm

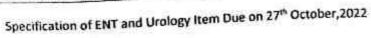
Micro Forceps, curved upwards, with 1 mm cupped jaws, with cleaning connector, working length 20 cm Spoon Forceps, straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm, with

suction channel to remove LASER vapors (KLEINSASSER) Grasping Forceps, straight, serrated, with cleaning connector, working length 18 cm Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning

connector, working length 18 cm







(LINDHOLM) Forceps, for atraumatic retraction of true vocal cords and false vocal cords, distal. end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm Sickle Knife curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm (KLEINSASSER) Suction Tube, outer diameter 3 mm, working length 23 cm (KLEINSASSER) Suction and Coagulation Cannula, outer diameter 3 mm, working length 26 cm, for use with unipolar High Frequency Cords Unipolar High Frequency Cord, with 5 mm plug, length 300 cm, Bipolar Forceps, jaws upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords Bipolar High Frequency Cord, with two 2 mm cable sockets for Bipolar Suction Forceps and Bipolar Forceps length 450 (three) Quart (8) cm High-Performance LED Cold Light Fountain,

Mains cord Fiber Optic Light Cable, with straight connector, diameter 3.5 mm or better, length 180 cm

Sterilization system complete consisting of standard set or as follows. Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:



(linical Specialty	OT GERNAL SURGERY	Item No 35.
Generic Name	Flexible Endoscope QTY 1	
Clinical Purpose	The use of a flexible fibre optic endoscope to evaluate upper airways (nasal passages, nasopharynx, oropharynxandlarynx), a procedure usually carried out by ENTsorallergists.	
TECHNICAL SPEC	THICATIONS	

CMOS/CCD Video-Rhino-Laryngoscope

Direction of view:00

Angle of view:

Deflection: updown

Working length: Outer Diameter.:

Light Source

LED/Xenon 100 watt or better Light



Light Built in with Monitor or Separately both are

acceptable Monitor

Medical Graded Monitor 19"or better

75to85°or more

120-1400

30cm

2.5 - 3.7mm

Video Processor

Video Processor Resolution 720 x 1280or better Built in or Separate

Output Ports:-DVI/RGB/HDMI

Case For storing Video Rhino Laryngoscope

Container for Disinfection/Sterilization Trolley or stand for Scope

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including

consumable items for 03 years.

Country / Origin of Manufacturer:





Clinical Specialty	Cardiology	
340	C-V	Item No 40
Generic Name	Cardiac Monitor	QTY 4
Clinical Purpose	In CCUs, ICUs, operating rooms, and pre and post – operating and management of patier data, such as Cardiac Rhythm, Saturation, Waveforms, Invasive Blood Pressure (NIBP).	erative wards, a monitor

Bedside Monitor to display vital signs and other parameter for Adult / Paeds / Neonates (The Procuring Agency and End-user to specify the requirement).

Operating Features and Characteristics:

Screen Size: At least 15" diagonal (Touch Operated) or better with non-fade LCD /

TFT LCD / LED color display.

Electro-Surgical Interference Suppression / Protection.

Defibrillator Protection.

Freeze and Cascade Facility.

Waveform: Six wave forms or more.

Waveform Traces Speed: 25 & 50 mm / sec.

Parameters:

ECG

Numeric: Heart Rate

Real Time, and freeze ECG Trace

Non-Invasive Blood Pressure (NIBP):

Method: Oscillometric Principle

Numeric: Systolic, Diastolic, and Mean Pressure

Selectable auto inflate interval setting

Rising Cuff / Continuous Pressure Display

Invasive Blood Pressure flBPI:

Temperature:

Numeric: Temperature selectable in °C / °F

Pulse Oximetry:

Numeric: 0- 100% oxygen saturation measuring range

Waveform-Plethysmograph Pulse with Pulse Strength Indication

Arrhythmia Analysis:

Arrhythmia Analysis and ST Analysis

Respiration:

Breath Rate display and settable apnea alarms Sweep Speed: 6.25, 12.5 mm / sec or better

Other Features:

Trend Data: Graphical / Tabular with at-least 48 hours' back-up or better

Alarms:

High & Low (settable) on all parameters

Visual and audible indication of alarms

Other Parameter:

Operating Requirement: AC 220 V & 50 Hz Built-in rechargeable battery for fully operational back-up for at least 1.5 - 2 hours or

online pure Sinewave UPS (imported) with fully operational back-up for at least 2 hours or better

Communication:

Capability to interface with LAN / WLAN for data transfer





The system must be complete with all sensors, probes, cables, or any other accessories required for measuring all the above selected parameters Type and Quantity of Reusable Cuffs (Latex Free) of all available sizes of all body contours (To be specified by the Procuring Agency and End-user) Reusable Sensors (Type & Quantity to be specified by the Procuring Agency and Enduser) Operational & Service Manual.

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:





Clinical Specialty	Anesthesia & Ventilator	Item No 41
Generic Name	SYRING PUMP WITH DOCKING STATION	QTY 10
Clinical Purpose	A syringe pump is a small infusion pump used to gradually as amounts of fluid (with or without medication) to a patient. Sy also useful for delivering IV medications over several minute medication which should be slowly pushed in over the course minutes, this device saves staff time and reduces errors	ringe drivers are

Syringe pump for fluid administration.

Flow Rates: 0.1 - 400 ml/hr. (Approx)

Digital display of set parameters.

Universal Syringe acceptance capability for disposable, Plastic, Size, 10, 20, 50, 60 ml.

Drive Accuracy, ±3%

Display of drug name, Infusion rate, infused volume and volume to be infused.

Automatic adaptation of controls according to syringe /infusion set.

Quick freed/rapid infusion facility.

Rechargeable battery and mains operated 220V, 50Hz.

Safety alarm audible and acoustic for occlusion end of infusion, low battery.

Battery back up 3 to 4Hours.

Should be compatible with docking station

DOCKING STATION OTY 3

Power centralization for 3 or more devices to reduce the cable need

One wire connection to main

Ability to connect or disconnect one or more devices

Easy front loading

Fit to use for pole and rail system

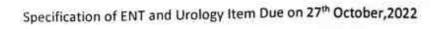
Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:







(linical Specialty	ENT	Item No 30
GENERIC NAME	Laryngoscope set with Optics	OTY 2
Clinical Purpose	Laryngeal microsurgery is removal of abnormal tissue from the vocal folds (cords) using precision micro laryngeal instruments and/or laser.	un e e e e e

(KLEINSASSER) Operating Laryngoscope, for adults, medlum, length 17 to 18 (KLEINSASSER) Operating Laryngo-scope, length 17 to 18cm, adult size,

Sugar

(KLEINSASSER) Operating Laryngoscope, for adults, medium, length 17 to 18cm (for anterior commissure)

(KLEINSASSER) Operating Laryngo- scope, child size, length 15 cm (KLEINSASSER)

Operating Laryngo-scope, length 13 cm, child size, small, BENJAMIN- HAVAS Clij3>6lloct\ for proximal illumination

Fiber Optic Light Carrier, for distal illumination, working length 14 cm, for use with Laryngoscopes

with wide angle

and Diverticulo scopes

Fiber Optic Light Carrier, for use with laryngoscopes Laryngoscope Holder,

adjustment

Consisting of:

Holder with wheel support rod

(KLEINSASSER) Forceps, straight, with 2 mm cupped igfl&MCtfl cleaning connector,

working length 23 cm

(KLEINSASSER) Forceps, curved upwards, withýmm cupped jaws, with cleaning

connector, working length 23cm

(KLEINSASSER)Forceps, curved to lef

length 23cm

cupped jaws, with cleaning connector, working

(KLEINSASSER) Miniature F

from distal to proximal

(KLEINSASSER) Arterv-Effift

cm (KLEINSASSER) Scissors,

Drceps, straight, with1 mm cupped jaws, sheath conically reinforced

, with cleaning connector, working length 23cm

ps, with ratchet, with cleaning connector, working length 23

straight, with cleaning connector, working length 23 cm

Micro Forcep with 1mm cupped jaws, with cleaning connector, working length 20cm Spoon Forceps, with cupped jaws, diameter 5 mm, robust model, double action jaws, sheath

diameter 2.5 mm, with cleaning connector, working length23 cm LINDHOLM Forceps, for alraumatic retraction of true vocal cords and false vocal cords, distal end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm

(KLEINSASSER) Knife sickle-shaped, curved, pointed, working length 23cm (KLEINSASSER) Suction Tube, outer diameter 3mm, working length 23cm

Accessories:

Sterilization system complete consisting of standard accessories or as follows Container Boltom

Container LidWire Basket Silicone mat Wrapping Drapes

Warranty:

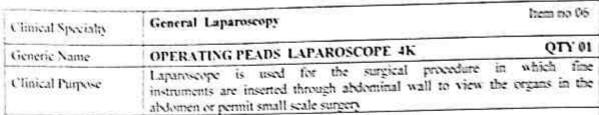
Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

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imaging system should have backward and forward compatibility and modularity for futures upgrade and with latest image enhancement modules for better image quality and identifications of the land marks and pathology for better outcomes of the surgery.

The laparoscope of these specifications shall be provided or compatible with full UHD minimum of 3840 x 2160 pixels with the method of Progressive Scanning.

Telescope

10 mm, straight 0° working length 290-320 mm.

10 mm straight, 30° view working length 290-320 mm.

5 mm straight forward "0" degree.

5 mm forward oblique "30" degree.

Camera Full 3CCD /3 CMOS + Monitor

Camera control unit and video camera Head, Pal system.

Integrated (image processing model)

Power supply accordingly.

Special Feature Required:

Automatic or manual white balance

Powerful video signal processing

Image enhancement modes.

Picture in picture mode control via camera head button or monitor.

Control of peripheral i.e., light source, recording system parameter via camera head button

Still image capturing in full HD quality (JPEG) format via camera head buttons

Video capturing in full HD quality (MPEG 4 format) via camera head buttons

Should have compatibility with future upgrade like 3 D or better or equivalent.

Max. Resolution: 3840 x 2160-pixel, progressive scan

Video Output: HDMI OR DVI OR SDI or as per manufacturer standard.

Monitor 4K

4K LCD/I/ED 30 Inch or better with Resolution 3840x2160 from the same manufacturer, ARM or stand for monitor.

Imported trolley should be from same manufacturer,

XENON (300 watt) LED Light Source with all standard accessories. (If the firm will quote the xenon light source it will be compulsory to quote and supply 05 lamp)

Light guide cable, diameter 4mm or more length minimum 200 to 300 cm.

Electronic C02 insufflator,

40-50 Liter min complete in all respect with all standard accessories.

SMOKE EVACUATOR SYSTEM OR ANTI FOGGING SYSTEM.

Integrated or separate medical graded video recorder with storage capacity of 500GB or more from same manufacturer.

LIST OF INSTRUMENTS REQUIRED FOR GENERAL SURGERY.

Note: The Minor deviation in sizes and type of the instruments would be acceptable.

The Size of Instruments Approximate. The mentioned shaped and style of instruments is reference and may be quoted their equivalent.

LIST OF INSTRUMENTS REQUIRED FOR PEDIATRIC UROLOGY

Set of instruments 3-3.5mm length 20-24



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- 2. Trocar, size 3.5 mm, with pyramidal tip. Cannula with locking mechanism, length (3-6 cm) Qty 3
- 3. Kelly Dissecting and Grasping Forceps, rotating, size (3-3.5) mm, length 20-24 cm
- Bipolar Kelly Grasping Forceps rotatable, with connector pin, especially suitable for dissection, double action jaws, size 3-3.5 mm, length 20-24cm.
- 5. Maryland dissecting forceps, rotating, with unipolar connecting pin, size 3-3.5mm, length 20-24cm
- 6. Dissecting and Grasping Forceps, Right Angle (Lahey) rotating, size (3-3.5) mm, length 20-24cm
- 7. Debaky (Yohan) forceps, rotating, size 3-3.5mm, length 20-24cm
- 8. Dissecting Grasping Forceps, traumatic, rotating, size (3-3.5) mm, length 20-24cm
- Dissecting and Grasping Forceps, a traumatic, fine serration, rotating, size 3-3,5mm, length 20-24
- Bipolar Grasping Forceps rotatable, with connector pin, with fine traumatic serration, fenestrated, double action jaws, size 3-3.5mm, length 20-24 cm Qty 2
- 11. Habcock Grasping Forceps, fenestrated, rotating, 3-3.5mm, length (20-24) cm double action jaws
- 12. Multifunction grasping forceps, 1x2 teeth, size 3-3.5mm, length 20-24cm
- 13. Bowel grasping forceps, two rows of traumatic teeth, size 3-3.5mm, length 20-24cm.
- 14. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 5mm, length 20-24 cm,
- 15. Allis forceps, rotating, size 3-3.5mm, length 20-24cm
- METZENBAUM Scissors, rotating, with connector pin for unipolar, size 3-3.5mm, length 20-24 cm
- 17. Scissors straight, rotating, insulated, unipolar connecting pin, size (3-3.5) mm, length 20-24 cm
- 18. Micro Hook Scissors, rotating, with unipolar connecting pin, size (3-3.5) mm, length 20-24 cm
- Coagulating and Dissecting Electrode, L-shaped for unipolar coagulation, size 3-3.5mm, length 20-24 cm
- 20. Fan Retractor, dismantling, distendable,5mm, length 20-24 cm
- 21. Suction and Irrigation Tube, with lateral holes, size 3-5mm, length 20-24 cm, for use with handle
- 22. Suction and coagulation cannula 3-5mm with connector pin, unipolar 20-24cm
- 23. Aspiration needle 3-3.5mm, length 20-24cm
- 24. Unipolar High Frequency Cord, with 5mm plug, length 300 cm, for use with HF system
- 25. Bipolar High Frequency Cord, length 300 cm,
- 26. Adaptor for cleaning, with Metal- handle, without ratchet
- 27. Knot tier, for extracorporeal knotting, size 3-3.5mm, length 20-24 cm
- 28. Verees access needle 6-8cm
- Needle Holder, with tungsten carbide inserts, straight handle with ratchet, jaw straight, size 3-3.5mm, length 20-24cm (Qtv 02)
- Needle Holder, with tungsten carbide insert, straight handle with ratchet, jaws curved to left, size 3-3,5mm, length 20-24cm (Qty 02)
- 31. Instrument container from same manufacturer
- 32. Telescope sterilization container from same manufacturer

B. Set of instruments 5mm, length 30-36 cm

- Trocar, size 5 mm, with pyramidal tip, Cannula with locking mechanism, length (5-6.5 cm) QTY 3
- Trocar, size 10 mm, with pyramidal tip, Cannula with locking mechanism, length (6-10cm) OTY 3
- 3. Reducer sleeve 10mm to 5mm QTY 2
- 4. Kelly Dissecting and Grasping Forceps, rotating, size 5 mm, length 30-36 cm
- Bipolar Kelly Grasping Forceps rotatable, with connector pin, especially suitable for dissection, double action jaws, size 5 mm, length 30-36cm,
- Maryland dissecting forceps, rotating, with unipolar connecting pin, size 5mm, length 30-36cm
- Dissecting and Grasping Forceps, Right Angle (Lahey) rotating, size 5 mm, length 30-36cm
- 8. Debaky (Yohan) forceps for vessels handling, rotating, size 5mm, length 30-36cm
- 9. Dissecting Grasping Forceps, traumatic, rotating, size 5 mm, length 30-36cm
- Reddick-Olsen dissecting forceps, Heavy.



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- 11. Dissecting and Grasping Forceps, atraumatic, fine serration, rotating, size 5mm length 30-
- 12. Bipolar Grasping Forceps rotatable, with connector pin, with fine atraumatic serration, fenestrated, double action jaws, size 5mm, length 30-36cm. Qty 2
- 13. Babcock Grasping Forceps, fenestrated, rotating, 5mm, length 30-36 cm double action
- Multifunction grasping forceps, 1x2 teeth, size 5mm, length 30-36 em
- 15. Bowel grasping forceps, two rows of traumatic teeth, size 5mm, length 30-36cm. Qty 2
- 16. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 3-3.5mm, length 30-361 cm.
- 17. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 10mm, length 30-361
- Allis forceps, rotating, size 3-3.5mm, length 30-36cm. Qty 2
- 19. METZENBAUM Scissors, rotating, with connector pin for unipolar, size 5 mm, length 30-36 cm
- 20. Seissors straight, rotating, insulated with unipolar connecting pin, size 5 mm, length 30-
- 21. Scissors curved/angled, rotating, insulated with unipolar connecting pin, size 5 mm, length 30-36 cm
- 22. Micro Hook Seissors, rotating, with unipolar connecting pin, size 5 mm, length 30-36cm
- 23. Bipolar Scissors rotatable, with connector pin, curved blades, double action jaws, size 5 mm, length 30-36 cm
- 24. Coagulating and Dissecting Electrode, L-shaped for unipolar coagulation, size 5 mm. length 30-36 cm
- 25. Fan Retractor, dismantling, distendable, 5mm, length 30-36 cm
- 26. Suction and Irrigation Tube, with lateral holes, size 5mm, length 30-36 cm, for use with handle
- Suction and coagulation cannula 5mm with connector pin, unipolar 30-36cm
- 28. Aspiration needle 5mm, length 30-36cm
- 29. Unipolar High Frequency Cord, with 5mm plug, length 300 cm, for use with HF system
- 30. Bipolar High Frequency Cord, length 300 cm,
- Adaptor for cleaning, with Metal-handle, without ratchet
- 32. Knot tier, for extracorporeal knotting, size 5mm, length 30-36 cm
- Verees access needle 8-10em
- 34. Needle Holder, with tungsten earbide inserts, straight handle with ratchet, jaw straight, size 5 mm, length 30-36cm. Oty 2
- 35. Needle Holder, with tungsten earbide insert, straight handle with ratchet, jaws curved to left, size 5mm, length 30-36cm (Qty 02)
- 36. Biopsy forceps 5mm, length 30-36cm
- 37. Fan Retractor 5mm (3-5 blades)
- 38. Thread manipulator 5mm
- 39. Knot pusher
- 40. Clip applicator 5-10 mm (medium, large)
- 41. Vascular clamp (Stansiky/bulldog) with applicator (small, medium, large)
- 42. Instrument container from same manufacturer
- 43. Telescope sterilization container from same manufacturer

Accessories:

- i) Online UPS imported with 30 min backup to be provided locally as per manufacturer recommendations.
- ii) CO2 Cylinder 240CFT with complete accessories (to be supplied locally) certified by respective agency.
- Imported storage boxes for instruments and optics.
- iv) Imported disinfection Boxes.
- v) Standard Cleaning Set as manufacturer recommendations for cleaning of tubular shafts and other instruments





Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

One doctor foreign attachment at manufacture's site and one Biomedical Engineer comprehensive service training at manufacturer's site.





Clinical Specialty	Radiology	Item No 7
Generic Name	C-arm (Portable fluoroscopy)	QTY 01
Clinical Purpose	Can be used in theatres for interventional procedur implants/prosthesis placement	es and on spot guidance for

them, we are mobile for radiography and fluoroscopy.

Their frequency, power output of 2KW or more.

4" to \$10ks with one shot fluoroscopy facility of 6mA or more.

Notas tube with stationary anode or better.

Dual focal spots of 0.6 and 1.5 mm.

Automatic Fluoro dose control

Collimator: Remote control of collimator, iris and blades diaphragms motorized with x-ray grid

TV camera: High sensitivity, CCD camera, 1024 x 1024 pixels with last image hold Display

Digital video memory 100000 images or more

Noise reduction filter, last image hold, pulsed fluoroscopy

I dee enhancement, image inversion to be provided

Real time digital image rotation

Fluoroscopy footswitch: One cassette holder 24x30cm

Laser localizer lights cross beam type

Size of Image intensifier should be 9" or more.

DSA software should be provided.

Accessories:

All Standard accessories(Display screens key board trolley)

5 lead apron light weight with hanger's and stand.

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer;

USA / Europe / Japan

Dual Quality certification Required

FDA 510 K /CE/MIHLW

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Clinical Specialty	Urology Item no 9
Generic Name	INTRACORPOREAL LITHOTRIPTER (COMBINE UNIT OF TWO ENERGIES I.E., PNEUMATIC, ULTRASONIC) 50 piecs QTY 01
Clinical Purpose	Advanced auto adaptative algorithm delivers precise, constant ultrasonic energy for fine fragmentation and dusting of urinary stones. Breakthrough electromagnetic technology generates real ballistic energy for powerful and coarse fragmentation of large and hard urinary stones. Wide hollow probe and precise suction guarantee continuous removal of even large unnary stone fragments.

Synergy of 3 modalities in a single-probe (Ballistic impacts for powerful fragmentation / ultrasounds for fine dusting / smart suction to remove large stone fragments).

Independent generation of ballistic impacts and ultrasounds that can be used independently or simultaneously.

Possibility to adjust the power and frequency (1-12 Hz) of the impacts, the power of the ultrasounds and the low rate of the suction.

Auto-adaptive algorithm allowing precise and constant generation and propagation of 100% the ultrasounds.

Clinically-proven fastest stone clearance. Two times faster stone fragmentation compared to competitive dual-energy in a single-probe lithotripters, and three times faster than the Combined mode of Lithoclast (Pneumatic and Ultrasonic).

Largest lumen available on the market (8.6 mm2 compared to 7.8 mm2 on probes of competitive dualenergy in a single-probe lithotripters) allowing the removal of large stone fragments up to 3.3mm of diameter without grasping baskets.

Reduced to nearly zero retropulsion effect for more accurate stone control, thanks to 8x smallerdownward ballistic probe tip displacement compared to Combined mode of Lithoclast (Pneumatic and Ultrasonic) (clinically-proven).

Integrated peristaltic pump to streamline suction rate, avoiding the need of external suction system, optimizing the endoscopic vision and reducing the risk of organ collapse due to under pressure in the kidney.

Disposable Stone Catcher enfranchising from using additional stone retrieval consumables, while allowing sterile stone fragments collection for analysis without any treatment interruption.

Extended range of disposable probes compatible with most endoscopic options, including mini and micro nephroscopes to suit individual patients' needs by addressing all type of stones throughout the urinary tract.

RFID recognition of the probes for an automatic set of best treatment parameters on the

Footswitch activation of the suction and the delivery of energies, for hand-free operations Record of data of last 5 treatments

FIDMI display option to View the console screen

Touch Screen Console

Integrated colling system to avoid over heating.

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ACCESSORIES:

LITHOCLAST Main Unit

Foot pedal

Flandpiece Kit

Support Stone Catcher

Suction Bag

Electrical cord 6m

FIDMI cord 10m

Filling Bottle

De-ionised water bottle

Torque Wrench

Cleaning rod for Probes

Imported original Cart

Lithoclast Probes disposable (50 probes at end user Choice)

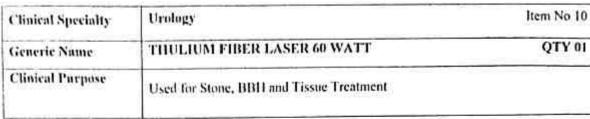
Available Sizes (compatible with URS, Mini PCNL & Standard PCNL)

- Lithoclast probe 0 3.9 x 350
- Lithoclast probe 0 3.9 x 440
- Lithoclast probe 0.3.4 x 340.
- Lithoclast probe 0.3.4 x 445
- Lithoclast probe 0 1.9 x 341
- Lithoclast probe 0.1.5 x 440
- Lithoclast probe 0.1.1 x 425
- Lithoclast probe 0 1.1 x 520
- Lithoclast probe 0.1.1 x 625

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan



Thulium fiber laser uses long thin and thulium doped silica fiber as the active laser medium. Multiple diode lasers are pumping energy through the fiber and excited the thulium ions. Photons are emitted at 1940nm wavelength and directed at the operational field via on outgoing laser fiber. There are two operating modes to choose from the continuous and pulsed mode. Furthermore TFL can operate within different energy frequency and pulse shape settings. A highly efficient pumping mechanism allows obtaining high powers while generating small amounts of heat. Consequently there is a significantly smaller cooling apparatus in the machine compared to other laser systems, reducing the overall weight of a TFL system. Thanks to the thin gain medium and more uniform employed. he can spatial profile. smaller surgical fibers More effective stone dusting with high frequency and better clearance and suction possibilities. hemostasis. tissue and BPH with better safe alternative treat soft to Law maintenance requirements, reducing long term costs and reducing down time.

Wavelength Power max

1940nm +- 20 nm

Pulse energy

Nominal max power output 60 w

0.02-6i

Operating mode

Pulse and continuous mode

Pulse duration

Depending on peak power(10Ous-continuous)

1-2500HZ Repetition rate

Beam transmission

Ontical fiber system

Aiming beam

Laser diode, green 532 nm (adjustable) <5mW, Class

Cooling

Air Tower format

Housing

110-240VAC, 50/60 Hz 850VA

Power supply Pedal.

Double foot switch with mode switching

Interface

7" touch display, 1280x800 resolution

Accessories:

Ix foot pedal Exfiber entter 2xset of safety goggles 1xinterlock connector

1xfiber stripper 1xblast shield

1xfluid bag hook

Expower supply cable

Smart fiber 200um (set of 5

fibers)

Smart fiber 272um (set of 5 Smart fiber 365um (set of 5

Smart fiber 550um (set of 5

fibers)

fibers)

fibers)

Smart fiber 1000um (set of 5 Smart fiber 800um (set of 5 fibers)

fibers)

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

Clinical Specialty

Urology

Item: 11

Generic Name	TYPEMOBILE UNIT
Clinical Purpose	Extracorporeal shock wave lithotripsy is a non-invasive treatment of kidney stones and biliary calculi using an accountic pulse. It is also reported to be used for salivary stones and pancreatic stones.

Shockwave Lithotripter will be a Modular system, capable of treating the urinary strates with other special unological applications by using outline/ inline/free line localization system of Ultrawood and X-Ray. It can also be used for diagnostic purposes. The system should be top of the line and latest. The detail of system configuration is as under:

Shockwave generator

Shockwave generator

No. of Shockwave System: Triggering Method Selection of Energy

Energy Density Penetration depth of waves

Focal Distance Focal spot size: Pressure at Focust

Rate of Shockwaves: Water system:

Control

IMAGING / LOCALIZATION

MODES

Localization system

a) X-Rays Image Intensifier

Type:

X-ray Generator: power generator

Size of LR: PickupTube Fluoroscopy

X-ray tube focal Spot

(any two focal spots in between the given range)

Heat Storage capacity

Memory:

Monitor: h) Ultrasound

Type:

Transducer: Resolution Monitor Size:

Depth

Electromagnetic

One

Auto & manual

Variable

Min 0.88mJ/mm2 or better

Min. 120mm Min 140mm or better 70mm2 or better Min 50MPa

Variable up to 120 / minute or more

Closed loop, integrated Main console / Remote

X-Ray and Ultrasound

Inline /free line localization/Outline

Integrated Isocentric C-arm

High Frequency inverter type Output

2 KW or more

23cm CCD

Min.3.0 mA and 120 kV

Dual 0.3 to 1.5mm Anode

40KHU or more

1.111

43cm or more

Trolley Mounted

Multi frequency, Convex 3.5Mhz.

256 gray levels 30 cm/ more 24cm

The X-ray system will be used for fluoroscopy. The radiation protection measures / accessories must be provided with the system.

PROCEDURE TABLE: -

Special motorized table suitable for litho & Endo urological and diagnostic procedure Tilt able and Complete with leg holders and douche tray.

Height

Adjustable



Weight Bearing Capacity

Movements:

Patients positing

Tabletop:

Min 180 Kg

Four way movements

Automatic / Manual

Radio translucent

Complete with relevant accessories. Lead Aprons (Qty 5 , Medium)

OPERATING CONSOLE:

Control:

Control of all functions must be available at the operating console.

Data storage and analysis:

The data will be stored in the main computer system or on separate PC through dedicated software MOD / CD /DVD writing system or USB recording (In case of separate PC, the system must be supplied by the manufacturer of Lithotripter)

Communication Software:

Adjustable

Min 180 Kg

Four way movements

Automatic / Manual

Radio translucent

DICOM-3

POWER REQUIREMENT: -

Voltage: Three / Single phase, 50Hz

Site Preparation

Bidder Will be responsible for arrangement of all installation requirements, console, Electric DB,

Cable trays / trench, lead shielding, UPS Installation for room finishing / preparation.

If any for validation of equipment and checking.

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

Trainings:

One doctor foreign attachment at manufacture's site and one Biomedical Engineer comprehensive service training at manufacturer's site.





Clinical Specialty	Urology Item No42,43,44,55&56
Generic Name	NEONATAL UROLOGY BASIC SET
Clinical Purpose	Pediatric urology is a surgical super specialty of urology & pediatric surgery dealing with the disorders of children's genitourinary systems (boys and girls) from birth to adolescence. This supra specialty concerned with anatomy, physiology, clinical recognition and treatment of various congenital & acquired diseases of Genitourinary tract in children.

CYSTOSCOPE SET FOR NEONATES QTY 2

Telescope 0" Degree (1.2-1.9mm)

Cystoscope Sheath 7.0 -8.5 Fr

Pediatric Biopsy Forceps Flexible (Compatible with sets 3 Fr)

Button Electrode (Compatible with sets)

Cold knife Triangular 3 Fr (compatible with set)

Hook electrode 3 Fr

HF Cable

CYSTOSCOPE SET FOR INFANTS & CHILDREN QTY 2

Telescope 0° Degree (2.7mm)

Cystoscope Sheath (11.0Fr - 14Fr)

Adopter with I Instrument port

Insert with Deflector

Operating (Compact) cysto-urethroscope 5°- 12° Degree (7.5 - 12 Fr) with straight working channel

Grasping Forceps Flexible 3-5 Fr

Biopsy Forceps Flexible 3-5 Fr

Cold knife Triangular 3 Fr (compatible with set)

Hook electrode 3-5 Fr

Button Electrode 3-5 Fr

HI Cable

RESECTOSCOPE FOR NEONATES QTY 2

Telescope 0° Degree (1.9 mm)

Resectoscope Sheath 8-9 Fr

Instrument port

Working Element

Cutting Loop

Hook electrode

Coagulating electrode

Operating (Compact) cysto-urethroscope 5°- 7° Degree (4.5/6.5 Fr) with straight working channel

RESECTOSCOPE FOR INFANTS & CHILDREN QTY 2

Telescope 30° Degree (2.7 mm)

Resectoscope Sheath 11-13 Fr

Instrument port

Lelescope Bridge compatible

Working Element with electrode attachment

Cutting Loop

Hook electrode

Congulating electrode

Grasping Forceps 3-5 Fr

Endoscopie Micro seissors 5 Fr

Bladder syringe compatible 50-100 ml

Accessories:

Sterilization Container

Protection Tube.





OPTICAL URETHROTOME PAEDS QTY I

Telescope 0" Degree (1.9 mm)

Urethrotome Sheath 8.0Fr to 11Fr Instrument port compatible with sheath

Working Element

Set of 4-5 Cold Knife (Straight, round, sickle & hook)

Protection Sheath.

Accessories:

Sterilization Container.

Protection Tube

Warranty:

Warranty of all accessories is included in 05 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:



Clinical Specialty	Urology Item 45		
Generic Name	PEDIATRIC UROLOGY BASIC SET		
Clinical Purpose	Pediatric urology is a surgical super specialty of urology & pediatric surgery dealing with the disorders of children's genitourinary systems (boys and girls) from birth to adolescence. This supra specialty concerned with anatomy, physiology, clinical recognition and treatment of various congenital & acquired diseases of Genitourinary tract in children.		
TECHNICAL SPECI	and treatment of various congenital & acquired diseases of Genitour children.		

CYSTOCOPE & RESECTOSCOPE FOR ADOLESCENT

Telescope 0° & 30° Degree (2.7 mm) (Length 250mm - 335mm)

Cystoscope sheath 14-15 Fr (Compatible with telescope)

Resectoscope Sheath 14-15 Fr (Compatible with telescope).

Telescope Bridge compatible

Instrument port

Working Llement with electrode attachment

Cutting Loop

Hook electrode

Coagulating electrode

Grasping Forceps 5-7 Fr

Cold knife (Straight, round, sickle & hook)

Ludoscopie Miero seissors 5-7 Fr

Bladder syringe compatible 50-150 ml

Accessories:

Sterilization Container.

Protection Tube

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan







Clinical Specialty	Urology Item 47	
Generic Name	MINI PCNL QTY 02	
Clinical Purpose	Percutaneous nephrolithotomy (PCNL) is a minimally-invasive procedure to remove stones from the kidney by a small puncture wound (up to about 1 cm) through the skin. It is most suitable to remove stones of more than 2 cm in size and which are present near the pelvic region. It is usually done under general anesthesia or spinal Anesthesia	

Mini PCNL

Consist of telescope 7-12 degree or better eye piece.

Nephroscope /telescope Size 7.5 to 12 Fr or better.

Instrument channel 6.5 to 7.5 fr for instrument and irrigation for mini Nephroscope Continuous.

Irrigation Nephroscope Sheaths 11-21 Fr.

Minimum 3 sizes operating sheath 14-21 with Dilators compatible with the Nephroscope and all accessories stone grasping forceps.

2 or 3 prong stone grasper.

Grasping forceps with alligator Jaw.

Compatible suction irrigation pump.

Accessories:

Standard Accessories to execute the functioning task and sterilization process if any.

Warranty of all accessories is included in03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan



Clinical Specialty	Urology	Item 49 & 50
Generic Name	SEMI RIGID URS SET	QTY 2 Each
Clinical Purpose	URS is endoscopy of ureter and pelvis that is used to break the stones	

1.Uretero-renoscope

Autoclavable, Semi Rigid Tip size 4-7.5. Fr, Angle: 5-6 degree

Working Length: 25-57 cm.

Instrument Channel with lateral offset eye piece or Equivalent Silicone

5 pieces / package Rubber cap for

instrument channel 3-4 Fr or better

Flexible cleaning brush for instrument channel

Grasping Forceps (Compatible with sets) qty 2

Biopsy Forceps(Compatible with sets) qty 1

2or 3 prong forceps (Compatible with Set) qty 2

Sterilization Tray compatible with sets

2. Uretero-renoscope

Autoclavable, Semi Rigid Tip size 6-9Fr, Angle: 5-12 degree

Working Length: 43cm

Instrument Channel with lateral offset eye piece or Equivalent Silicone

automatic valve, 0.3.9 mm, 5 pieces / package Rubber cap for

instrument channel

Flexible cleaning brush for instrument channel

Grasping Forceps (Compatible with sets) qty 2

Biopsy Forceps(Compatible with sets) qty 1

2or 3 prong forceps (Compatible with Set) qty 2

Sterilization Tray compatible with sets

Accessories:

Stone Basket,

Warranty:

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 05 years.

Country / Origin of Manufacturer:

USA / Europe / Japan





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Clinical Specialty		Item No 53
Generic Name	LOW END DOPPLER	OLAG
Clinical Purpose	It is immediately available imaging modality with its main use in indoor patients especially in ICU/CCU settings, in patients who cannot be transported to department, in emergency situations or when ionizing radiations are contraindicated	

Image Quality: Digital Ultrasound scanner with digital imaging parameters and annotation library, CrosXB and speckled reduction imaging or equivalent beam former. System should be capable to handle multi frequency probes from 3.0 MHz to 18.0 MHz or above.

Probes as standard:

I. Multi frequency LINEAR transducer of frequency range from 4 - 11MHz or more

2. Multi frequency Convex Probe with center frequency between 2-6 MHz or better for

Abdomen, Obs & Gynae and deep view studies) Vascular Bundie (Software) Biopsy adopter for
any probe B-Mode angle linear steering variable independent for B Mode and color Doppler M

-Mode, Color Doppler needle recognition designed and combination there of M. Mode sweep:
4 speed or more. Gray scale: 256 or more Sensitivity gain time: 6-12 steps/continuously
variable Overall gain control in STEPS /CONTINUOUS Depth: 30 cm or more Focusing system: 3
steps and dynamic Adjustable acoustic power Frame rate: 500 frame / sec or more Tissue
Harmonics: Tissue Harmonic imaging Cine memory of 500 frames/ 150Mb minimum. Post
processing: Image inversion, edge/echo enhancement correlation / persistence/Dynamic Range
/ Gamma Curve. Focusing system up to 4-8 or more transmit focal zone. Image magnification
8x (minimum) in real time and freeze mode, pan zoom and scroll callper calculation. Min.4
distance measurements per screen, Trace, length measurements, ANGLE MEASUREMENT,
Spectral / Doppler, CWD, basic cardiac and Advanced Vascular Measurements, Auto-trace

Area, Circumference And Compound Volume, Histogram, OBS/ Gynae measurements Monitor: 15" LCD / TFT or bigger---2D image display. Full screen split and select screen formats simultaneous display B/W, color and spectral image depth 30 cm or more. Single probe connector and three probe connector with original trolley. Data management JPEG and MPEG4 file formats, cine loop capture, patient data management and archiving via removable SD card or flash drive. On board image review application, USB data transfer to a computer and DVI port for attaching second monitor. Built in drive: USB and integrated SSD,HDD Video ports: INPUT and OUTPUT USB Needle enhancement software /Must be available Operating Voltage 220 V AC, 50 HZ. Docking cart with three probe ports and built in battery packed with minimum battery life of one hour. Built in Trolley System should be included. Anesthesia application, enhanced parameters for clear needle and anatomy visualization, adjustment of depth and gain, power Doppler and color modes ,auto optimization of image, onboard annotation library, application for vascular access or equivalent, regional nerve blocks and pain management. Easy to clean, fluid resistant with integrated battery pack, one latch docking system with trolley cart, quick transducer disconnect and universal mounting connection. Keyboard: Alpha numeric with built in track ball / Touch pad. Freeze facility; built in keyboard complete with foot switch. Simplified user interface, automatic image optimization on screen /key board for data entry, caliper measurements, one touch patient ID biopsy guideline. System must be fully digital-

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digital beam former, dynamic transmitted focusing, dynamic digital aperture. DICOM compatibility: DICOM 3.0 compatible System weight be as low as possible (6kg or less). ACCESSORIES:

Thermal Printer 256 -Gray scale (Sony, Mitsubishi or equivalent)

2. UPS: on line with sine waves 2 KVA with thirty minutes back up time. (IMPORTED) 3. 50 High Density / High Glossy thermal paper Rolls 4. Gel: 20 liter

FUTURE UPGRADES:

The unit should have the capability for up gradation of future software (shall be provided free of cost within the warranty period).

OPTIONAL:

Endovaginal/ Endocavitory probe Echo probe Hockey-stick Probe

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan

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Clinical Specialty		Hem No 57
	MAGNIFYING OPERATING LOOPS	OIYA
Generic Name Clinical Purpose	Use in fine surgery especially surgery on nerves, tendons and small	
	vessels	

Binocular alilean loupes with futigueless view.

Magnification: 2.5x - 3.0x Working distance: 550-300 mm.

Field of view: 115-70 mm. Titanium or sport frame designed specifically to use with loopes in different colors.

With LED light Source

Warranty of all accessories is included in 03 years contract. Comprehensive warranty of all parts including

consumable items for 03 years.

Country / Origin of Manufacturer:

USA / Europe / Japan