



The Children's Hospital,  
University of Child Health Sciences

Ferozpur Road, Lahore Phone # (92) (42) 99230901-23 Fax # 99231560



No. P.C./ 8470 /CH&UCHS

Dated 15.09, 2024

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 PROCUREMENT OF ELECTRO MEDICAL EQUIPMENT, PLANT & MACHINERY & IT EQUIPMENTS REQUIRED TO UP-GRADATION OF PEDIATRIC ENT AND UROLOGY DEPARTMENTS FOR THE YEAR 2023-2024**

Please find enclosed herewith Minutes of Pre bid meeting regarding the Procurement of Electro Medical Equipment, Plant & Machinery & IT Equipments required for Up-gradation of Paediatric ENT & Urology Departments for The Children's Hospital & University of Child Health Sciences, Lahore for the year 2023-2024 needs to be uploaded on the Health Department website.

Your early response will be highly appreciated.

**PROF. DR. TIPU SULTAN**  
MBBS, FCPS, M.Sc (UK), (FRCPCH (LONDON))  
Prof. of Paediatric Neurology  
Medical Director

MINUTES OF THE PRE BID MEETING HELD ON 30-01-2024 AT 11:00 A.M. IN THE CONFERENCE ROOM OF THE ADMIN BLOCK IN THE CHILDREN'S HOSPITAL & UNIVERSITY OF CHILD HEALTH SCIENCES LAHORE FOR THE PROCUREMENT OF ELECTRO MEDICAL EQUIPMENT, PLANT & MACHINERY & IT EQUIPMENT FOR UP-GRADATION OF PEDIATRIC ENT WITH SPECIAL REFERENCE OF COCHLEAR IMPLANT & PEDIATRIC UROLOGY WITH SPECIAL REFERENCE TO NON INVASIVE TREATMENT AT THE CHILDREN'S HOSPITAL & UCHS. LAHORE FY 2023-24

Reference advertisement letter No. P.C./2020/1-55/CH&UCHS dated 08-01-2024 regarding the Procurement of Electro Medical Equipment, Plant & Machinery & IT Equipment for Up-Gradation of Pediatric ENT with Special Reference of Cochlear Implant & Pediatric Urology with Special Reference to Non Invasive treatment at the Children's Hospital & UCHS, Lahore for the year 2023-2024 held on 30-01-2024 at 11:00 a.m. In The Children's Hospital, University of Child Health Sciences, Lahore.


- Tender Published in newspaper on 12-01-2024 under IPL No. 301 (Daily Jung & Daily Express) as well as on PPRA website on 12-01-2024 and ready for sale.
  - As per advertised tender a Pre-Bid Meeting held on 30-01-2024 at 11:00 am (As per schedule already given in the advertisement).
  - 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 companies in order to avoid any misunderstanding during the bidding process.
1. Finalization of Equipment Specifications:
    - The committee emphasized the importance of incorporating end-user feedback into the final specifications.
    - A comprehensive exercise was conducted between the firm representatives and end-users to finalize the draft specifications.
    - It was noted that all items were selected from approved PVMS..
  2. Feedback from End-Users:
    - End-users provided valuable feedback during the exercise, ensuring that the specifications align with their requirements and usage scenarios.
  3. Resolution for Coblation Device Specification:
    - The committee acknowledged that the coblation device specification had not been addressed by the PVMS Committee.
    - Requesting the Health Department for the formation of new specifications was deemed a lengthy process.
    - End-users proposed that all available vendors dealing with this machine submit drafts for a one-time purchase, with consensus from all members.
    - It was agreed upon that this approach would expedite the process while ensuring alignment with end-user needs.
    - The Approved specification Draft has been signed by the committee of the following items.
    - For Operating Microscope it was decided that the existing specs are at the higher end and the allocated budget is not sufficient so the end-user decided to make a bit change in the specification with the consensus of all vendors and change the focal length from 600mm to 440mm.




Sr. No.	Items Description	Remarks
1.	Video Otoscope System	Specification attached
2.	Mastoidectomy Set	Specification attached
3.	Middle Ear Micro Ear Surgery Set	Specification attached
4.	Middle Ear Surgery Tympanoplasty And Stapedotomy Set	Specification attached
5.	Myringotomy Set	Specification attached
6.	ENT unit combined	Specification attached
7.	Mastoid Drill System	Specification attached
8.	Cochlear Implantation Set	Specification attached
9.	Patient (facial) Nerve Monitor	Specification attached
10.	Operating Microscope for ENT	Specification attached
11.	Operating head lights	Specification attached
12.	Endoscope cameras system (High Definition)	Specification attached
13.	Coblation equipment	Specification attached
14.	Oto Endoscope	Specification attached
15.	Pulse Oximeter	Specification attached
16.	Rigid bronchoscope set with Optical Forceps	Specification attached
17.	Laryngoscope set	Specification attached
18.	Rigid Esophagoscope set with Optical Forceps	Specification attached
19.	Bronchial endoscope	Specification attached
20.	Micro Laryngeal Surgery Set	Specification attached
21.	Tracheostomy Set	Specification attached
22.	BAHA Surgery Set	Specification attached
23.	Fess equipment Functional endoscopic sinus surgery	Specification attached
24.	Flexible endoscope equipment	Specification attached
25.	ENT treatment units	Specification attached
26.	Adeno- Tonsillectomy Set	Specification attached
27.	Nasal Surgery Set	Specification attached
28.	Shaver Debrider with components	Specification attached
29.	Stroboscope System	
30.	Syringe Pump with Docking station	Specification attached
31.	Digital Film Printer	
32.	Digital Imaging System (Photostimulabe Phosphor)	

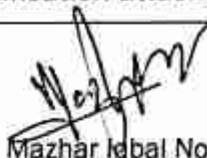
B. UROLOGY DEPARTMENT		
33.	Cystoscope Set for Neonates	Item No 33,34,35,36 & 37 considered as a package items. (Specifications are attached)
34.	Cystoscope for Infants and Pediatrics	
35.	Resectoscope for Neonates	
36.	Resectoscope for Infants and Pediatrics	
37.	Optical Urethrotome for Pediatrics	
38.	Cystoscope&Resectoscope for Adolescent	Specification attached
39.	Irrigation pump with pressure monitor system for endoscopy	Specification attached
40.	Pediatric Mini Nephroscope set	Specification attached
41.	Pediatric Micro PCNL Set	Specification attached
42.	Pediatric Uretero-Renoscope Semirigid URS 4.5-7.3 Fr, 50 - 60, Length 25-57cm, working channel 3-4 Fr or better	Item No 42 & 43 considered as a package items. (Specifications are attached)
43.	Pediatric Uretero-Renoscope Semirigid URS 6.5-9 Fr, 6 - 120, Length 25-57cm, working channel 3-4 Fr or better	
44.	Flexible digital uretero scope 6-8 fr (URS)	Specification attached
45.	Pediatric Laparoscope Set / System (3-D system) having 1-tower 2- Instruments	Specification attached
46.	Advanced Bipolar diathermy	Specification attached
47.	Mobile Ultrasound Machine with Doppler	Specification attached
48.	Hand held Doppler ultrasound	Specification attached
49.	Extra-Corporeal shock waves Lithotripter (ESWL) integrated type for Pediatric patient with General anesthesia set up as pr PVMS	Specification attached
C. I.T. EQUIPMENTS		
ENT DEPARTMENT & UROLOGY DEPARTMENT		
50.	Computer System Core i7 (Latest Generator) 16 GB Ram 1 TB Hard disk 19" LCD with UPS (APC 650VA)	Specification attached
51.	Laser printer (Black & White)	Specification attached
52.	Multimedia Projector	Specification attached
53.	Laser printer with scanner and photocopier (Black & White)	Specification attached
54.	Internet networking	Specification attached
55.	Digital Camera high definition	Specification attached

  
Engr. Shujaat All  
Bio Medical Engineer/  
Technical Officer

  
Dr. Ghulam Mujtaba Zafar  
Associate Prof. of Paed. Urology /  
Enduser

  
Engr. Arfan Haider  
Biomedical Engineer /  
Purchase Officer

  
Dr. Imran Saeed  
Prof. of Paediatric ENT /  
Enduser

  
Mazhar Iqbal Noor  
Computer Programmer /  
IT Incharge

<b>Serial No</b>	<b>01</b>		
<b>Estimated Cost</b>	4,248,000	<b>Quantity</b>	2
<b>Generic Name</b>	<b>VedioOtoscope System</b>		
<b>Clinical Purpose</b>			
<b>TECHNICAL SPECIFICATIONS</b>			
Video Otoscope Complete with USB port, integrated lighting, with same brand monitor Multi use ear speculum of different sizes.			
Single-use ear speculum for video otoscope, pack of 100 pieces or more			
<b>Accessories:</b>			
Sterilization and storage system complete			
<b><u>WARRANTY:</u></b>			
3 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
USA/ EUROPE / JAPAN			

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Serial No	2		
Estimated Cost	2,360,000	Quantity	1
Generic Name	Mastoidectomy Set		
Clinical Purpose	Mastoidectomy is a procedure performed to remove the mastoid air cells. This can be done as part of treatment for mastoiditis, chronic supportive otitis media or cholesteatoma. In addition, it is sometimes performed as part of other Procedures (cochlear implant) or for access to the middle ear.		

**TECHNICAL SPECIFICATIONS**

- Periost Knife, 13cm, Elevator Version
- Surgical Handle, No. 3, length 12.5cm, for blades
- Blade No. 10, sterile, package of 100
- Blade No. 11, sterile, package of 100
- Blade No. 15, sterile, package of 100
- HARTMANN Nasal Speculum, for adults, length 13 cm
- WEITLANER Retractor, 3x4 prongs, sharp, length 16cm
- WEITLANER Retractor, 3x4 prongs, sharp, length 13cm
- WULLSTEIN Retractor, 11 cm
- VOLKMANN Retractor, length 21cm, 3 prongs, sharp
- LANGENBECK Retractor, length 21.5cm, size 33 mm x 14 mm
- FARABEUF Elevator, 18.0cm, 11mm wide.
- LEMPERTElevator, curved, 7mm wide, length 18cm
- FREER Elevator, double-ended, length 20cm.
- Mastoid Gouge, 14cm 3mm wide
- Mastoid Gouge, 14cm, 5mm wide
- Mastoid Gouge, 14cm, 7mm wide
- Mastoid Gouge, 14cm, 9mm wide
- Mastoid Chisel, 14cm 3 mm wide
- Mastoid Chisel, 14 cm 5 mm wide
- Mastoid Chisel, 14 cm, 7 mm wide
- COTTLE Mallet, length 18cm
- KERRISON Rongeur, working length 11cm, size 2
- JANSEN Rongeur, bayonet, 17cm
- HOUSE Curette, large, spoon sizes 2x3.2mm and 1.6x2.6mm, length 15cm
- LEMPERT Mastoid Curette. 21cm, size 0000
- SPRATT Mastoid Curette. 16.5cm, size 0.
- SPRATT Mastoid Curette. 17cm, size 1.
- HALSTEAD Mosquito Forceps, 12.5cm, curved.
- ROCHESTER-PEAN Haemostatic Forceps, straight, length 14cm
- ROCHESTER-PEAN Haemostatic Forceps, curved, length 14cm
- OCHSNER-KOCHER Haemostatic Forceps, 1x2 teeth, straight, length 14cm
- ALLIS Forceps, 4 x 5 teeth, length 15 cm
- ADSON Dressing Forceps, serrated, 12 cm.
- ADSON Tissue Forceps, 1x2 teeth 12cm.
- ADSON-BROWN Tissue Forceps, non-traumatic, fine side grasping teeth, length 12cm
- Dressing Forceps, length 14.5cm, standard size
- Dressing Forceps, length 14.5cm, delicate size
- Tissue Forceps, 1 x 2 teeth, length 14.5 cm, standard size
- Tissue Forceps, 1 x 2 teeth, length 14.5 cm, medium size
- Tissue Forceps, 1x2 teeth, length 14.5cm, delicate size
- JOBSON-HORNE Probe. With serrated and ring end, 18 cm
- Seeker, ball end angled 45°, 15.5 cm, size 3.

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- Scissors, delicate, 10 cm, curved
- STEVENS Scissors, curved, 10.5 cm
- JOSEPH Scissors, 14cm, curved.
- METZENBAUM Scissors, curved, 14cm.
- Scissors, straight, length 14.5cm, 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 without cut-off hole, LUER, working length 7.5cm, O.D. 1.7mm
- BARON Suction Tube, with cut-off hole, LUER, working length 7.5cm, O.D. 2.3mm
- FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 11 cm, 6Fr. FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 11 cm, 9fr
- FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 11 cm, 12fr
- ZOELLNER Suction Tube, LUER-Lock, 15cm, O.D. 2.5mm. Suction Tip for, 4cm, O.D. 0.5mm.
- Suction Tip for, 4cm, O.D. 0.7mm.
- 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, 100cc, 30 mm high, diameter 80mm

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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Serial No	3		
Estimated Cost	2,242,000	Quantity	1
Generic Name	Middle Ear-Micro Ear Surgery Set		
Clinical Purpose	To restore hearing loss, which is usually due to otosclerosis, stapedectomy is performed. Stapedectomy is the removal of all or part of the stapes, one of the bones in the middle ear, and replacement with a tiny prosthesis.		

**TECHNICAL SPECIFICATIONS**

- 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 11 cm
- 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, cm
- 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, package 100 Scissors, curved, sharp/blunt, length 14.5cm.
- ROCHESTER-PEAN Hemostatic Forceps, straight, length 14cm
- Needle Holder, tungsten carbide inserts, length 13 cm HALSTEAD "straight, length 12.5 cm HALSTEAD "Mosquito" Artery Forceps, Towel Forceps, Length 9 cm
- GUILFORD-WRIGHT Wire Cutter, serrated, length 10 cm SC
- HARTMANN Ear Speculum, standard mosquito 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 8cm 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 8cm
- Suction Tube angular, 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, length 15.5 cm.
- 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

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- 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.
- PLESTER Hook, 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
- WULLSTEIN Needle. 16.5cm, light curve.  
Pick90°, 16cm, 0.4mm  
Pick90°, 16cm, 0.6mm  
Pick90°, 16cm, 0.8mm  
Pick90°, 16cm, 1.0mm

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	4		
<b>Estimated Cost</b>	2,478,000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Middle Ear Surgery Tympanoplasty&amp;Stapedectomy Set</b>		
<b>Clinical Purpose</b>	To restore hearing loss, which is usually due to otosclerosis, stapedectomy is performed. Stapedectomy is the removal of all or part of the stapes, one of the bones in the middle ear, and replacement with a tiny Prosthesis.		

**TECHNICAL SPECIFICATIONS**

- Retractor, 2x2 prongs, length 13cm
- Scissors, curved, length 15cm
- "Mosquito" Artery Forceps, micro-model, curved, length 12.5cm
- Scissors, extra delicate, curved, sharp/sharp, length 10.5cm
- Suction and Irrigation Tube, conical, suction tube outer diameter 3.2mm, irrigation tube outer diameter 2mm, working length 9.5cm
- Suction and Irrigation Tube, cylindrical, suction tube outer diameter 2.5mm, irrigation tube outer diameter 2mm, working length 9.5cm
- Suction and Irrigation Tube, cylindrical, suction tube outer diameter 1.9mm, irrigation tube outer diameter 1.9 mm, working length 9.5cm
- 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, length 16 cm
- Double Curette, medium, spoon sizes 1x1.8mm and 2x2.8mm, length 15cm
- Jeweler Forceps, fine, pointed, soft spring-action, length 11cm
- Tissue Forceps, 1x2 teeth, slender, soft spring-action, length 13cm
- Forceps, serrated, soft spring-action, length 15cm
- Raspatory, width 10mm, length 16 cm
- Raspatory, curved, width 4mm, length 16.5cm
- Suction Tube, angular, with grip plate, outer diameter 1.2mm, working length 9cm
- Suction Tube, angular, with grip plate, outer diameter 1.5mm, working length 9cm
- Suction Tube, angular, with grip plate, outer diameter 2 mm, working length 9 cm
- Suction Tube, angular, with grip plate, outer diameter 2.2mm, working length 9 cm
- Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7mm, working length 7cm, for use with Adaptor 204250 for use with Handle
- Suction Tube, angular, malleable, LUER-Lock, outer diameter 1 mm, working length 7cm, for use with Adaptor.
- Suction Handle, with long thumb grip, cut-off hole diameter 1mm, inner diameter 1.7mm, LUER cone, length 5.5cm, for use with Suction Tubes
- Micro Raspatory, single curved to right, length 16cm
- 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 cm
- Pick, 45°, size 0.5 mm, length 16 cm
- Pick, 45°, size 1mm, length 16cm
- Pick, 45°, size 1.5mm, length 16cm
- Pick, 45°, size 2.5mm, length 16cm
- Pick, 90°, size 0.5 mm, length 16 cm
- Pick, 90°, size 1 mm, length 6cm
- Pick, 90°, size 1.5mm, length 16cm
- Pick, 90°, size 2 mm, length 16cm
- Manual Perforator, diameter 0.3mm, length 16cm
- Perforator, diameter 0.4mm, length 16cm
- Perforator, diameter 0.5 mm, length 16 cm
- Perforator, diameter 0.6mm, length 16cm
- Anterior Footplate Elevator, tip angled upwards 90°, 0.2mm, length 16cm

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- Anterior Footplate Elevator, 11 angled downwards 90°
- 0.2mm, length 16cm
- Caliper, angled shaft, diameter 0.4mm, marker pin at 10mm, length 16 cm
- Caliper, angled shaft, diameter 0.6 mm, marker pin at 10 mm, length 16 cm
- Measuring Rod, length 16 cm, Marker pins at 3 mm, 4 mm, 5 mm
- Ear Forceps, extra delicate, oval cupped jaws, 0.9mm, working length 8cm
- Ear Forceps, extra delicate, oval cupped jaws, 0.6mm, working length 8cm
- Ear Forceps, round cupped jaws, diameter 2mm, working length 8cm
- Ear Forceps, extra delicate, serrated, 1 x 4.5 mm, working length 8cm
- Ear Forceps, extra delicate, serrated, 0.4x3.5mm, working length 8cm
- Ear Forceps, extra delicate, smooth, 1 x 4.5 mm, working length 8cm
- Micro Scissors, extra delicate scissor blades, within shaft, blade length 3mm, working length 8cm
- Micro Scissors, extra delicate scissor blades, blade length 3mm, working length 8cm
- Scissors, blade 7mm, extra delicate, working length 8cm Scissors, for crurotomy, curved to right, working length 7.5 cm
- Scissors, for crurotomy, curved to left, working length 7.5cm
- Malleus Nipper, extra delicate, up biting, width 0.8mm, working length 8cm
- 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 mesh tray for cleaning, sterilization, transport and storage of instruments, including hole plate walls and fold away handles. External dimensions (WxDxH): 480x 250x60mm.

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	5		
<b>Estimated Cost</b>	1994200	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Myringotomy Set</b>		
<b>Clinical Purpose</b>	A Myringotomy, sometimes called by other names, is a surgical procedure in which a tiny incision is created in the ear drum (tympanic membrane) to relieve pressure caused by excessive buildup of fluid, or to drain pus from the middle ear		
<b>TECHNICAL SPECIFICATIONS</b>			
<ul style="list-style-type: none"> <li>• EarSpeculum, 3.6cm, O.D. 5mm</li> <li>• EarSpeculum, 3.6cm O.D. 6mm</li> <li>• EarSpeculum, 3.6cm O.D. 7.5mm</li> <li>• EarForceps, very fine, serrated, working length 8cm</li> <li>• EarCurette, blunt, 14.5cm size 1</li> <li>• Sickle Knife, double-edged, standard model, slightly curved, length 16cm</li> <li>• Needle. 16.5cm, light curve.</li> <li>• Pick 90°, 16cm, 0.8mm</li> <li>• Adaptor. For suction cannulas with cut-off hole, LUER cone 5.5 cm.</li> <li>• Suction Cannula, straight, LUER-Lock, malleable, 10cm, O.D. 1.0mm</li> <li>• Suction Cannula, straight, LUER-Lock, malleable, 10 cm, O.D. 1.3 mm</li> <li>• Suction Cannula, straight, LUER- Lock, malleable, 10 cm, O.D. 1.5 mm</li> <li>• Suction Cannula, straight, LUER- Lock, malleable, 10 cm, O.D. 2.0 mm</li> <li>• Groumet Gun</li> <li>• Instrument Rack for 5 instruments with holder for ear specula, for ventilation tubes set, may be used with metal case.</li> <li>• Metal Case, perforated, lid detachable, size 20x10x4cm</li> <li>• Tele-Otoscope with Straight Forward Telescopes 0°, diameter 3mm, length 6cm, auto-clavable, fiberoptic light transmission incorporated, color code: green.</li> </ul>			
<b>Accessories:</b>			
Sterilization system complete consisting of standard accessories or as follows: Container Bottom Container Lid Wire Basket Silicone mat. Wrapping Drapes.			
<b><u>WARRANTY:</u></b>			
3 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
USA/ EUROPE / JAPAN			

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Serial No	6 & 25		
Estimated Cost	7,491,300	Quantity	3
Generic Name	ENT Unit Combine		
Clinical Purpose	The ENT treatment unit with an integrated suction system, ear irrigation module, compressed air system and an innovative LED light module		

**TECHNICAL SPECIFICATIONS**

- ENT unit combined with patient chair and stool allows the operator to manage complete and professional activity for examination, treatment and diagnostics.
- The unit shall have solid and mobile case with anti-static castors with brakes
- The structure coatings 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:
- Noiseless Suction system with oil or dry pump having suction capacity 30 litres/min or more Wasteage collection jar 1 litter or more
- System with assorted kit of suction cannulas. Insufflation System:
- Insufflation with flow regulation system and Pulzizer olive included 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.
- Larynx mirror quick heating
- Compressed air system complete with:
- Air syringe for spray olives 2
- atomizers:
- 2 bottle holders for medicaments.
- Rinsing system of suction tubes
- Rinsing system of suction tubes shall be complete with automatic/manual discharge outside ON/OFF switch and timing shall be settable by touch screen/key pad on the instrument tablet.
- Endoscope supports
- 2 endoscope supports: 2 long supports for flexible (clean and dirty) and 2 for rigid endoscopes (clean and dirty).
- Endoscope Warmer
- Time system for simultaneous preheating of endoscope support from 37 to 38.
- 
- Optional Mandatory to Quote
- 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.
- Rigid Endoscopes 4MM 0° or 30°
- Adult Flexible Nasopharyngoscope Video Capturing Software with camera ENT Microscope with articulated arm Integrated UV compartment in drawer Doctor's Stool.

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- HeadLight:
- WithHeadband

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	7		
<b>Estimated Cost</b>	10,406,000	<b>Quantity</b>	2
<b>Generic Name</b>	<b>Mastoid Drill</b>		
<b>Clinical Purpose</b>	The removal of bone from the mastoid process. This process is located behind the ear canal and contains cells which drain into the middle ear. Their removal becomes necessary if they are diseased or if a cholesteatoma, an infected skin cyst in the middle ear and mastoid is present.		
<b>TECHNICAL SPECIFICATIONS</b>			
<ul style="list-style-type: none"> <li>• MICROSURGICAL HIGH SPEED DRILL 40,000 to 100,000 rpm Consisting Of:</li> <li>• Control Unit</li> <li>• High Speed Electronic Micro Motor 40000 rpm or better with Cable Single/double Foot Control including connecting cable Standard suction Irrigation set</li> <li>• INTRADRILL HANDPIECES:</li> <li>• INTRADRILL HANDPIECE STRAIGHT (QTY.3)</li> <li>• INTRADRILL HANDPIECE ANGLED (QTY.3)</li> <li>• Drill Hand piece, straight, length 7cm or more, maximum rotating speed 80,000 rpm or better for use with Detachable irrigation tube use with straight shaft tungsten, carbide, stainless steel and diamond burrs</li> <li>• INTRA DRILL HANDPIECE ANGLED FOR EAR</li> <li>• Drill Hand piece, angled, length 7cm or more, maximum rotating speed 80,000 rpm or better for use with detachable irrigation tube use with straight shaft tungsten, carbide, stainless steel and diamond burrs</li> <li>• DIAMOND CUTTING BURRS SET</li> <li>• Diamond cutting burrs length 7cm or more, set of 14 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</li> <li>• TUNGSTEN CARBIDE BURRS SET</li> <li>• Tungsten Carbide Shaft Burrs, stainless, length 7cm or more, set of 14 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</li> <li>• 3X Cleaning Brushes</li> <li>• 5X Lubrication oil spray</li> </ul>			
<b>WARRANTY:</b>			
5 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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Serial No	8		
Estimated Cost	5,900,000	Quantity	2
Generic Name	Cochlear Implantation Set		
Clinical Purpose	A Cochlear Implant is a device that can be surgically implanted into a person's cochlea to stimulate it to cause hearing. It consists of a tiny receiver which is placed under the skin in the bony part behind the ear. The receiver has a probe with several electrodes (usually 22 now), that is implanted into the cochlea. This set is used to implant the cochlear device.		

**TECHNICAL SPECIFICATIONS**

- 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 OF MANUFACTURER:**

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<b>Serial No</b>	9		
<b>Estimated Cost</b>	1,416,000	<b>Quantity</b>	2
<b>Generic Name</b>	<b>Patient Facial Nerve Monitor</b>		
<b>Clinical Purpose</b>	Patient Nerve Monitoring Systems. Intra operative NIMnerve monitoring system senable surgeons to identify, confirm, and monitormotomervefunctionto help reducetheriskofnerve damageduringvariousprocedures,incluingENTandGeneral		
<b>TECHNICAL SPECIFICATIONS</b>			
FacialNerveMonitorRecurrentLaryngialNerveSpecializeEndotrehcealTube.			
<b>Accessories:</b> Sterilizationandstoragesystemcomplete			
<b><u>WARRANTY:</u></b> 3 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b> USA/ EUROPE / JAPAN			

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<b>Serial No</b>	<b>10</b>		
<b>Estimated Cost</b>	30,250,000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Operating Micro Scope for ENT</b>		
<b>Clinical Purpose</b>	For high quality imaging and brilliant illumination with microscopes for ear, nose and throat		
<b>TECHNICAL SPECIFICATIONS</b>			
<ul style="list-style-type: none"> <li>• Floor mounted stand with counterbalanced arm and motorized balancing Microscope body with linear motorized zoom (1:6) or better.</li> <li>• Motorized fine focusing</li> <li>• Adjustable speed for focus and zoom</li> <li>• Continuously variable focal length 225 to 600,400 mm without changing front lens</li> <li>• Binocular tilt able 0°C to 180°C with IPD adjustment</li> <li>• Coaxial illumination Variable spot illumination</li> <li>• Eyepieces 10X/12.5X with dioptic adjustment</li> <li>• Fully apochromatically corrected optics with high light transmission</li> <li>• Dust cover Sterilization</li> <li>• protective caps for all drive knobs</li> <li>• LED/Xenon illumination with controllable intensity 180 Watt or better</li> <li>• Waterproof foot control panel</li> <li>• Stereo co-observation attachment with inclination with straight Beam splitter.</li> <li>• HD camera with attachments</li> <li>• Recorder with hard drive and 30" LCD / LED screen</li> </ul>			
<b><u>WARRANTY:</u></b>			
5 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
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<b>Serial No</b>	11		
<b>Estimated Cost</b>	4,248,000	<b>Quantity</b>	4
<b>Generic Name</b>	Operating Head Light		
<b>Clinical Purpose</b>	HeadLightusedduringinspectionandsurgeryofEarNoseand Throat		

**TECHNICAL SPECIFICATIONS**

**HEAD LIGHTS WITH LIGHT SOURCE (QTY 2)**

- HeadlightwithdoublelenssystemandY-fiberopticalightcable,>175,000lux,illuminatedarea adjustable from 20 – 80 mm with 40 cm or better working distance, with removable and sterilizable focus handle,
- Y-FiberOpticLightCable,withstraightplug,diameter2x2.5mm,length290cm
- LED150WATTorbatterlightsourceHigh-PerformanceLEDLightwithonelightoutlet,power supply 100 - 240 VAC, 50/60 Hz
- Including: Mains cord
- Mobile Stands

**HEAD LIGHT WITH RECHARGEABLE BATTRIES (QTY 2)**

- Poweroflight 5Wto 10W
  - Workingtime 4-6hours
  - Lightlife 50000hoursorbetter
  - Illumination 100000(oneIac)Luxorbetter
  - Ledcolortemperature 5000Korbetter
  - Workinglength 40cmorbetter
  - Lightspotsize Adjustable
- Battery chargerUSB Connectingcable LightweightRechargeablebatterybox with 1 extra battery.

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

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Serial No	12		
Estimated Cost	17,545,000	Quantity	1
Generic Name	Endoscopic Camera System		
Clinical Purpose			

**TECHNICAL SPECIFICATIONS**

- 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 functions for image and video capturing with CMOS FULL HD camera heads with following technical data or better or Equivalent.
- Max. Resolution:- 1920x1080p  
Internal Storage 50GB.  
Special Features:  
Compatible with a large variety of camera heads.  
Supports camera heads in combination with rigid and flexible endoscopes as well as re-useable and single use flexible video endoscopes  
Completed documentation of the procedure is possible  
Patient data entry, store images and videos in internal memory, transfer of Videos and images on USB.  
Attachment of printer is possible.
- HDCMOS Camera Head  
CMOSHDCamera Head, compatible, progressive scan, soakable, with focal length  $f=16\text{mm}$  or better, 2 freely programmable camera head buttons  
Technical data:  
Image sensor: CMOS chip  
Progressive scan (full frame) for integrated zoom lens  
 $f=16\text{mm}$  or better  
Control buttons: 3 (2 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 1920x1080, image format 16:9, Interface: RS 232,  
Video Inputs: 2x DVI, 1x 3G-SDI, 1x RGB, 1x S-Video, 1x Composite Video Outputs: 1x DVI, 1x 3G-SDI, 1x Comp, 1x S-Video, 1x RS232. CE label, class I.  
Certified to: ANSI/AAMI ES60601-1, CAN/CSA C22.2 NO. 60601-1:14 and EN60601-1, EN60601-1-2,  
FCC part 15, Subpart B Class A, MDD  
93/42/EEC, FDA Class I Medical Device. Including Following Accessories:  
1x DVI cable  
1x External 24VDC power supply, 1x Main's cord.  
1x Cable cover.  
4x Mounting screws M4.
- LED light source 150W with one light port  
Technical data:  
Lamp type: High performance LED.  
Light intensity adjustment: Continuously manual  
Certified to: IEC60601-1, IEC60601-2-18, UL60601-1, CSAM601.1,  
CE according to MDD, protection class I/safety class CF.  
Extremely long average lamp lifetime of 30,000 hours.
- Fiberoptic light cable compatible with telescopes.



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- Equipment Cart with monitor Stand (LOCAL Supply),

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

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<b>Serial No</b>	13		
<b>Estimated Cost</b>	7,562,500	<b>Quantity</b>	2
<b>Generic Name</b>	Coblation Equipment		
<b>Clinical Purpose</b>	TO deliver radiofrequency (RF) energy for the hemostatic sealing and coagulation of soft tissues to prevent blood loss with minimal Thermal Damage.		

**TECHNICAL SPECIFICATIONS**

- The Generator should provide radio frequency (RF) energy to disposable Monopolar and Bipolar electrosurgical handpieces.
- The Generator accepts a Patient Return Electrode for monopolar applications and includes a rotary peristaltic pump for simultaneous delivery of saline for hemostatic sealing.
- The Generator delivers Bipolar RF power and saline with power settings in 5-watt increments in the range of 20 to 100 Watts and 10-watt increments in the range of 100 to 220 Watts.
- The Generator delivers Monopolar Cut, Coag, and Transcollation RF energy with a power output capable of up to 90 Watts.
- All Plasma Blade handpieces powered by the Plasma Blade port contain an embedded chip dictating the settings for that particular handpiece.
- The Generator has a convenient one-touch priming function that automatically primes the Transcollation handpiece with saline before use after the device has been correctly connected to the unit.
- This function is activated by pressing the "PRIME" button on the unit.

The Generator operates in the following modes:

**Cut Modes (Monopolar):**

- Low Cut (Peak Cut)
- Medium Cut (Pure Cut)
- High Cut (Blend Mode)

**Coagulation Modes (Monopolar):**

- Coagulation increases with higher settings.
- Low Coag (Pinpoint)
- High Coag (Spray)
- Hemostatic Sealing Modes (Monopolar or Bipolar)

**Required Features of the Generator include:**

- 64% average reduction in blade temperature for similar CUT settings compared to traditional electro surgery
- 45% average reduction in blade temperature for similar COAG settings compared to traditional electro surgery
- Simultaneous delivery of RF energy with saline for hemostatic sealing of soft tissue and bone.
- Handpiece control
- Simultaneous activation of 2 handpieces
- Device default settings recognition
- Monopolar and Bipolar outputs
- Connection to Patient Return Electrode
- Color LCD to prompt user for input and to display informational, error, and fault messages
- Audio feedback of activation and alarm tones

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**Accessories:**

Earth Plate : 3 X Reusable/Compatible and 12X disposable

5 X Plasma Blade Tonsil Dissection Device.

5 X Plasma Blade Adenoid Dissection Device.

Plasma Blade Tonsil tips 3 pack of 5 each

Plasma Blade Adenoid tips 3 pack of 5 each.

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

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Serial No	14		
Estimated Cost	684,400	Quantity	1
Generic Name	Oto Endoscope		
Clinical Purpose			
<b>TECHNICAL SPECIFICATIONS</b>			
<b>WARRANTY:</b>			
5 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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<b>Serial No</b>	<b>15</b>		
<b>Estimated Cost</b>	1,156,400	<b>Quantity</b>	4
<b>Generic Name</b>	<b>Pulse Oximeter</b>		
<b>Clinical Purpose</b>	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 photo Plethysmogram.		
<b>TECHNICAL SPECIFICATIONS</b>			
<ol style="list-style-type: none"> <li>1. Non-invasive measurement of oxygen saturation and pulse rate with LCD screen. Desktop unit.</li> <li>2. Display of oxygen saturation and pulse rate.</li> <li>3. Oxygen saturation measurement range from 0 -100%.</li> <li>4. Pulse strength perfusion indication</li> <li>5. Capability of Plethysmography.</li> <li>6. Pulse rate measurement from 30-250 bpm.</li> <li>7. Visual and audible indication of alarms.</li> <li>8. Built-in battery backup 05 hours.</li> <li>9. High and low alarms settings. Power of 220 V, 50 Hz.</li> </ol> <p><b>Accessories:</b> Reusable Paedtrics SPO2 probe with sensor Quantity02 (Infant 1, Adult 1).</p>			
<b><u>WARRANTY:</u></b>			
5 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
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Serial No	16		
Estimated Cost	5,445,000	Quantity	1
Generic Name	Rigid Bronchoscope with Optical Forceps		
Clinical Purpose	Bronchoscopy is an endoscopic technique of visualizing the inside of the airways for diagnostic and therapeutic purposes. An instrument (bronchoscope) is inserted into the airways, usually through the nose or mouth, or occasionally through a tracheostomy. Rigid bronchoscopy is used for retrieving foreign Objects.		

**TECHNICAL SPECIFICATIONS**

- Bronchoscope, length 18.5cm, size 2.5mm
- Bronchoscope, length 18.5cm, size 3mm
- Bronchoscope, length 30cm, size 3mm
- Bronchoscope, length 30cm, size 3.5mm
- Bronchoscope, length 30cm, size 4mm
- Bronchoscope, length 30cm, size 4.5mm
- Bronchoscope, length 30cm, size 5mm
- Bronchoscope, length 30cm, size 6mm
- Prismatic Light Deflector autoclave able, with connection to fiber optic light cable or equivalent Glass Window Plug QTY 2.
- Rubber Telescope Guide for use with telescopes
- FLUVOG Adaptor with sliding glass window plug, sealing cap
- Adjustable Magnifier, swing-away type, with ring adaptation, Autoclaveable Adaptor for respirator
- Injection Cannula/equivalent, for positive pressure assisted ventilations system, LUER-Lock/equivalent, outer diameter 3.5mm, for use with Bronchoscope Models
- Miniature Straight Forward Telescope 0°, diameter 1.3 mm, length 30-36cm, autoclaveable, fiberoptic light transmission incorporated, color code :green
- Optical Coin Forceps with alligator jaw, for use with telescope, hard foreign bodies with spring action handle or equivalent
- Straight Forward Telescope 0°, diameter 2.9mm, length 30-36cm, autoclaveable, fiberoptic light transmission incorporated, color code :green
- Optical Coin Forceps for Pediatric Broncho-Oesophagoscope, 2x2 teeth, for use with telescope forced controlled handle for removal of coins and flat foreign bodies or equivalent
- Optical Alligator Forceps for Pediatric Broncho-Oesophagoscope, 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 1.5 mm, working length 35
- Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35cm (QTY. 3)
- Rigid Suction Tube, outer diameter 3mm, working length 35cm or equivalent Cotton Carrier, working length 35cm
- Sponge Holder, working length 35cm
- Foreign Body Basket with ring handle, working length 35cm.

**Accessories:**

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

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**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

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Serial No	17		
Estimated Unit Cost	7,018,000	Quantity	2
Generic Name	LaryngoscopeSetWithOptics		
Clinical Purpose	Laryngoscope is a visual examination below the back of the throat, where the voice box (larynx) containing the vocal cords is located. It is an effective procedure for discovering the causes of voice and breathing problems, pain in the throat or ear, difficulty in swallowing, Narrowing of the throat (strictures or stenosis), and blockages in the airway.		

**TECHNICAL SPECIFICATIONS**

- 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 Diverticulosopes
- Fiber Optic Light Carrier for distal illumination, working length 7.5 cm, for use with Laryngoscopes
- (KLEINSASSER)/Laser Laryngoscope modified for CO<sub>2</sub>-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 cm
  - (KLEINSASSER) Forceps, curved upwards, with 2 mm cupped jaws, with cleaning connector, working length 23 cm
  - (KLEINSASSER) Forceps, curved to right, with 2 mm cupped jaws, with cleaning connector, working length 23 cm
  - (KLEINSASSER) Forceps, curved to left, with 2 mm cupped jaws, with cleaning connector, working length 23 cm
  - (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 23 cm
  - (KLEINSASSER) Miniature Grasping Forceps, curved to right, serrated, sheath conically reinforced from

distal to proximal end, with cleaning connector, working length 23cm

- (KLEINSASSER) Scissors, straight, with cleaning connector, working length 23cm
- Micro Forceps, straight, with 1mm cupped jaws, with cleaning connector, working length 20cm
- Micro Forceps, curved upwards, with 1 mm cupped jaws, with cleaning connector, working length 20 cm
- Spoon Forceps, straight, with 2mm cupped jaws, with cleaning connector, working length 23cm, with suction channel to remove LASER vapors
- (KLEINSASSER) Grasping Forceps, straight, serrated, with cleaning connector, working length 18cm
- Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 18cm
- (LINDHOLM) Forceps, for traumatic 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 23cm
- (KLEINSASSER) Suction Tube, outer diameter 3mm, working length 23cm
- (KLEINSASSER) Suction and Coagulation Cannula, outer diameter 3mm, working length 26cm, for use with unipolar High Frequency Cords
- Unipolar High Frequency Cord, with 5mm plug, length 300cm,
- Bipolar Forceps, jaws upturned, for bipolar coagulation in larynx, working length 23cm, for use with Bipolar High Frequency Cords
- Bipolar High Frequency Cord, with two 2mm cable sockets for Bipolar Suction Forceps and Bipolar Forceps length 450cm
- Fiber Optic Light Cable, with straight connector, diameter 3.5mm or better, length 180cm

**Accessories:**

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

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

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<b>Serial No</b>	<b>18</b>	
<b>Estimated Unit Cost</b>	4961000	<b>Quantity</b> 1
<b>Generic Name</b>	<b>RIGIDESOPHAGOSCOPEWITHOPTICALFORCEPS</b>	
<b>Clinical Purpose</b>	Esophagoscopy is a diagnostic procedure to evaluate the esophagus or swallowing passage. Problem 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.	
<b>TECHNICAL SPECIFICATIONS</b>		
<ul style="list-style-type: none"> <li>• Esophagoscope Tube, length 30cm, size 6 Esophagoscope Tube, length 30cm, size 5 Esophagoscope Tube, length 18, 5cm, size 3</li> <li>• Prismatic Light Deflector autoclaveable, with connection to fiberoptic light cable Rubber Telescope Guide for use with telescopes</li> <li>• Telescope Bridge for connection with Telescope</li> <li>• Straight Forward Telescope 0°, diameter 2.9mm, length 36cm, autoclaveable, fiberoptic light transmission incorporated, color code: green</li> <li>• Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2x2 teeth, for use with telescope forced controlled handle for removal of coins and flat foreign bodies</li> <li>• Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes, for use with telescope, forced controlled handle for removal of hard foreign bodies</li> <li>• Optical Forceps, with spring-action handle for controlled removal of peanuts and soft foreign bodies, for use with Telescope</li> <li>• Forceps alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5mm, working length 35cm</li> <li>• Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm</li> <li>• Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5mm, working length 35cm</li> <li>• Rigid Suction Tube, outer diameter 3mm, working length 35cm Cotton Carrier, working length 35 cm</li> <li>• Sponge Holder, working length 35cm</li> <li>• Foreign Body Basket with ring handle, working length 35cm</li> <li>• LED High-Performance LED Cold Light Fountain with one light outlet, <b>Including:</b></li> <li>• Fiber Optic Light Cable, with straight connector, diameter 3.5mm, length 180cm</li> </ul> <p><b>Accessories:</b>                      Sterilization system complete consisting of standard set as follows. Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes</p>		
<b><u>WARRANTY:</u></b>		
5 years comprehensive warranty including all parts and consumables		
<b><u>COUNTRY OF MANUFACTURER:</u></b>		
USA/ EUROPE / JAPAN		

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<b>Serial No</b>	19		
<b>Estimated Unit Cost</b>	9204000	<b>Quantity</b>	6
<b>Generic Name</b>	<b>Bronchial endoscope</b>		
<b>Clinical Purpose</b>	Bronchoscopy is an endoscopic technique of visualizing the inside of the airways for diagnostic and therapeutic purposes. An instrument (bronchoscope) is inserted into the airways, usually through the nose or mouth, or occasionally through a tracheostomy. Rigid bronchoscopy is used for retrieving foreign Objects.		

**TECHNICAL SPECIFICATIONS**

- Bronchoscope, length 20 to 30 cm, size 5-6 mm
- Bronchoscope, size 4 to 5 mm, outer diameter 4-6 mm, inner diameter 6-7 mm, length 20 to 30 cm
- Bronchoscope, size 3.5 to 5 mm, outer diameter 5-7 mm, inner diameter 5 mm, length 30-40 cm
- Prismatic Light Deflector autoclave able, with connection to fiber optic light cable
- Glass Window Plug
- Rubber Telescope Guide for use with telescopes
- FLUVOG Adaptor with sliding glass window plug, sealing cap
- Adjustable Magnifier, swing-away type, with ring adaption, Autoclaveable Adaptor for respirator
- Injection Cannula/equivalent, for positive pressure assisted ventilations system, LUER-Lock/equivalent, outer diameter 3.5 mm, for use with Bronchoscope Models
- Straight Forward Telescope 0°, diameter 2.9 mm, length 30-36 cm, autoclaveable, fiberoptic light transmission incorporated, color code : green
- Optical Coin Forceps for Pediatric Broncho-Oesophagoscope, 2x2 teeth, for use with telescope forced controlled handle for removal of coins and flat foreign bodies
- Optical Alligator Forceps for Pediatric Broncho-Oesophagoscope, 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 1.5 mm, working length 35
- Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm QTY 2.
- Rigid Suction Tube, outer diameter 3 mm, working length 35 cm
- Carrier, working length 35 cm
- Sponge Holder, working length 35 cm
- Foreign Body Basket with ring handle, working length 35 cm

**Accessories:**

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

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	20		
<b>Estimated Unit Cost</b>	3540000	<b>Quantity</b>	2
<b>Generic Name</b>	<b>Microlaryngeal Instrument</b>		
<b>Clinical Purpose</b>	Laryngeal microsurgery is removal of abnormal tissue from the vocal folds (cords) using precision microlaryngeal instruments and/or laser.		

**TECHNICAL SPECIFICATIONS**

- (KLEINSASSER) Operating Laryngoscope, for adults, medium, length 17 to 18
- (KLEINSASSER) Operating Laryngo-scope, length 17 to 18cm, adult size, large.
- (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 13cm, child size, small. BENJAMIN-HAVAS Clip, short, for proximal illumination
- Fiber Optic Light Carrier, for distal illumination, working length 14cm, for use with Laryngoscopes and Diverticulo scopes
- Fiber Optic Light Carrier, for use with laryngoscopes Laryngoscope Holder, with wide angle adjustment
- Consisting of:
- Holder with wheels support rod
- (KLEINSASSER) Forceps, straight, with 2mm cupped jaws, with cleaning connector, working length 23 cm
- (KLEINSASSER) Forceps, curved upwards, with 2mm cupped jaws, with cleaning connector, working length 23cm
- (KLEINSASSER) Forceps, curved to left, with 2mm cupped jaws, with cleaning connector, working length 23cm
- (KLEINSASSER) Miniature Forceps, straight, with 1mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23cm
- (KLEINSASSER) Artery Forceps, with ratchet, with cleaning connector, working length 23 cm
- (KLEINSASSER) Scissors, straight, with cleaning connector, working length 23 cm
- Micro Forceps, straight, with 1mm cupped jaws, with cleaning connector, working length 20cm
- Spoon Forceps, with cupped jaws, diameter 5mm, robust model, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 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 24cm
- (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 as follows Container Bottom Container Lid Wire Basket Silicone mat Wrapping Drapes

**Warranty :**

5 Year Comprehensive warranty .

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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Serial No	21		
Estimated Unit Cost	3681600	Quantity	2
Generic Name	Tracheostomy Set		
Clinical Purpose	This set for use Lyringe treatment		

**TECHNICAL SPECIFICATIONS**

- Surgical Handle, 12.5 cm
- Blade, 100 pcs
- Blade, 100 pcs
- Blade, 100 pcs
- Tongue Depressor, 19 cm
- Retractor
- Retractor
- Retractor
- Thymus Retractor
- LANGENBECK Retractor, 33 x 14 mm
- Retractor
- Cotton Applicator, standard model, 13 cm
- WULLSTEIN Elevator, 18 cm
- FREER Elevator, double-ended
- Elevator, 17.5 cm
- JANSEN Elevator, 9 mm wide
- Scissors, curved, 15 cm
- Scissors, curved, 14 cm
- Scissors, curved, 15 cm
- Scissors, curved, 14.5 cm
- Laryngectomy Scissors
- Nasal Speculum, 55 mm, 13.5 cm
- Nasal Speculum, 75 mm, 13.5 cm
- Nasal Speculum, 90 mm, 13.5 cm
- Suction Tube, 9 Fr.
- Suction Tube, 12 Fr.
- Life-Saving Tube
- Life-Saving Tube
- ATRAUMA Tissue Forceps, 16 cm
- Tissue Forceps
- Tissue Forceps
- Tissue Forceps
- Scissors, curved, 10.5 cm
- Tissue Forceps, atraumatic, 12 cm
- Dressing/Sponge Holding Forceps, 21 cm
- Forceps, straight, 20 cm
- Forceps, slightly curved, 19 cm
- Haemostatic Forceps
- Artery Forceps, anatomic

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- Artery Forceps, 1x 2 teeth, 14 cm
- Mosquito Artery Forceps, curved
- Towel Forceps, 11 cm
- Needle Holder, 15 cm
- HEGAR Needle Holder, 18 cm
- Retractor, 13 cm
- FISCH Retractor, 17 cm
- Nasal Cutting Forceps, size 2
- Cup Medicine
- Bipolar Forceps
- Bipolar Coagulating Forceps, 2mm, 19cm
- Bipolar Cord, length 300 cm
- Suction Tube, Malleable, LUER
- Laryngeal Applicator
- Plastic Container

**Warranty :**

5 Year Comprehensive warranty.

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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Serial No	22		
Estimated Cost	26432 <sup>00</sup>	Quantity	
Generic Name	BAHA SURGERY SET		
Clinical Purpose			
<b>WARRANTY:</b> 3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b> USA/ EUROPE / JAPAN			

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Serial No	23		
Estimated Cost	24,200,000	Quantity	1
Generic Name	<b>FUNCTIONALENDOSCOPICSINUSSURGERYCOMPLETESET (FESS)</b>		
Clinical Purpose	Functional endoscope sinus surgery (FESS) is a surgical treatment of sinusitis and nasal polyps, including bacterial, fungal, recurrent acute and chronic sinus problems. FESS uses nasal endoscope to restore drainage of the paranasal sinuses and ventilation of the nasal cavity		

- **Hand Instrument Set For Fess**
- Straight Forward Telescope 0°, enlarged view, diameter 4mm, length 17.5cm to 18cm, autoclavable, fiber optic light transmission incorporated, color code: green
- Straight Forward Telescope 0°, enlarged view, diameter 2.7mm, length 17.5cm to 18cm, autoclavable, fiber optic light transmission incorporated QTY 2.
- Straight Forward Telescope 30°, enlarged view, diameter 2.7mm, length 17.5cm to 18cm, autoclavable, fiber optic light transmission incorporated
- Straight Forward Telescope 70°, enlarged view, diameter 2.7mm, length 17.5cm to 18cm, 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, with proportional function Silicone Tubing Set, for suction & irrigation, sterilizable
- Clip Set, for use with Tubing Set Connecting Cable, length 100cm Single Use Tubing Set, sterile, package of 3
- Shaver Handpiece, for use ENT oscillation mode range from 3000 to 10000
- Suction Shaver Blade with integrated irrigation for Handpiece, straight, Autoclavable, double serrated cutting edge, rectangular cutting window, diameter 4mm, length 12cm, color code: blue-yellow for use with Hand pieces
- Suction Shaver Blade with integrated irrigation for Handpiece straight, Autoclavable, concave cutting edge, oval cutting window, diameter 4mm, length 12cm, color code: blue-green, for use with Hand
- Nasal Forceps, straight, with cleaning connector, working length 13cm Nasal Forceps, 45° upturned, with cleaning connector, working length 13 cm
- Nasal Forceps, straight, through-cutting, tissue-sparing, BLAKESLEY shape, width 3mm, 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
- Nasal Scissors, straight, with cleaning connector, working length 13cm
- Bipolar Suction Forceps, 45° upturned, with suction channel, for bipolar coagulation in paranasal area, working length 12.5cm, for use with Bipolar High Frequency Cords
- Bipolar High Frequency Cord, for Bipolar Suction Forceps and Bipolar Forceps length 450cm 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 4.5mm, circular cutting, with cleaning connector, working length 13 cm
- Frontal Ostium Seeker, double ended, both sides curved, tips bent right and left, length 22cm Antrum Curette, oblong, small size, length 19 cm
- Antrum Cannula, LUER-Lock/Equivalent, short curved, outer diameter 2.5mm, length 12.5cm 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 19cm
- Elevator, double-ended, semi sharp and blunt, length 20cm

Endo Vision System For Fess

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- 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 functions for image and video capturing with CMOS FULL HD camera Heads with following technical data or better or Equivalent
- Max. Resolution:- 1920x1080p
- Internal storage 5GB. Special Features:
- Compatible with a large variety of camera heads.
- Supports camera heads in combination with rigid and flexible endoscopes as well as reusable and single use flexible video endoscopes
- Completed documentation of the procedure is possible
- Patient data entry, store images and videos in internal memory, transfer of Videos and images on USB. Attachment of printer is possible.

#### **HDCMOS Camera Head**

- CMOS HD Camera Head, compatible, progressive scan, soakable, with focal length  $f=16\text{mm}$  or better, 2 freely programmable camera head buttons
  - Technical data:
  - Image sensor: CMOS chip
  - Progressive scan (full frame) for integrated zoom lens
  - $f=16\text{mm}$  or better
  - Control buttons: 3 (2 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 1920x1080, image format 16:9, Interface: RS 232,
  - Video Inputs: 2xDVI, 1x3G-SDI, 1xRGB, 1xS-Video, 1xComposite Video Outputs: 1xDVI, 1x3G-SDI, 1xComp, 1xS-Video, 1xRS232. CE label, class I.
  - Certified to: ANSI/AAMI ES60601-1, CAN/CSA C22.2 NO.60601-1:14 and EN60601-1, EN60601-1-2,
  - FCC part 15, Subpart B Class A, MDD 93/42/EEC. FDA Class I Medical Device. Including Following Accessories:
  - 1xDVI cable
  - 1x External 24VDC power supply. 1x Main 'scord. 1x Cable cover.
  - 4x Mounting screws M4.
  - Equipment Cart with monitor Stand.
  - Rides on 4 anti static 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: IEC60601-1, IEC60601-2-18, UL60601-1, CSAM601.1,
  - CE according to MDD, protection class I/safety class CF. Special features:
  - Extremely long average lamp life time of 30,000 hours.
  - **Fiber optic light cable compatible with telescopes.**

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- **MAGNIFIED DISPLAY SYSTEM**
- 0° with Integrated Illuminator, straight forward scope 0°, working distance 25 - 75cm, 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 for Magnifying System (Local Supply)**
- One Biomedical Engineer Training at site of manufacturer.

**Warranty :**

5 year Comprehensive warranty including all consumables.

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	24		
<b>Estimated Cost</b>	6,013,700	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Flexible endoscope equipment</b>		
<b>Clinical Purpose</b>	The use of a flexible endoscope to evaluate upper airways(nasal passages,nasopharynx,oropharynxandlarynx),aprocedureusuallycarriedoutby ENTsorallergists.		
<b>Technical Specifications</b>			
<ul style="list-style-type: none"> <li>• CMOS/CCD Video-Rhino-Laryngoscope Direction of view:0°</li> <li>• Angleofview: 75to85°ormore</li> <li>• Deflection:updown 120-140°</li> <li>• Workinglength: 30cm</li> <li>• OuterDiameter.: 2.5-3.7mm</li> <li>• LightSource</li> <li>• LED/Xenon100wattorbetterLight Source</li> <li>• LightBuiltinwithMonitororSeparatelybothare acceptable</li> <li>• Monitor</li> <li>• MedicalGradedMonitor19"orbetter</li>   <li>• VideoProcessor</li> <li>• VideoProcessorResolution720x1280orbetterBuiltinorSeparate Output Ports:-DVI/RGB/HDMI</li> <li>• CaseForstoringVideoRhinoLaryngoscope</li> </ul> <p>ContainerforDisinfection/SterilizationTrolleyorstandforScope</p>			
<b>Warranty :</b>			
5 Year Comprehensive warranty including all consumables.			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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Serial No	26		
Estimated Cost	2124000	Quantity	
Generic Name	Adeno - Tonsillectomy Instruments Set		
Clinical Purpose			
Technical Specification			
<b>WARRANTY:</b>			
5 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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<b>Serial No</b>	27		
<b>Estimated Cost</b>	1416000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Nasal Surgery Set (NasalBoneFractureReductionSet)</b>		
<b>Clinical Purpose</b>	Nasal bone fractures are among the mostcommon facial bone fractures restore thepatient's appearance through reduction of the nasal fracture Acute Pain in Children. Surgical Evolution in the Treatment of Mandibular		
<b>Technical Specification</b>			
<ul style="list-style-type: none"> <li>• NasalSpeculum,withsetrack,bladlength40mm,length15cm</li> <li>• NasalSpeculum,withsetscrew,bladlength40mm,length15cm</li> <li>• NasalSpeculum,15cm,withsetscrew,withadaptionforflexibletensionarm,40mm. Nasal Dressing Forceps, standard size, working length11cm</li> <li>• NasalScissors,cuttingbladescurvedupwards,tocuttheanteriorpartofthemiddleturbinat in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13cm</li> <li>• NasalScissors,straight,withcleaningconnector,workinglength13cm</li> <li>• SeptumForceps,straight, working length 9 cm Septum Forceps, straight, working length 11cm</li> <li>• Elevatordouble-ended,semisharpandblunt,graduated,length20cm</li> </ul> <p><b>Accessories:</b> SterilizationsystemcompleteconsistingofstandardaccessoriesorasfollowsContainer Bottom Container Lid Wire Basket Silicone mat</p> <ul style="list-style-type: none"> <li>• WrappingDrapes</li> </ul>			
<b>WARRANTY:</b>			
3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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<b>Serial No</b>	28		
<b>Estimated Cost</b>	7623000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Shaver Debroider with Component</b>		
<b>Clinical Purpose</b>	Functional endoscopic sinus surgery (FESS) is a surgical treatment of sinusitis and nasal polyps, including bacterial, fungal, recurrent acute and chronic sinus problems. FESS uses nasal endoscopes to restore drainage of the paranasal sinuses and ventilation of the nasal cavity for the use of Shaver / Debroider Machine		
<b>Technical Specifications</b>			
<b><u>SHAVER SYSTEM FOR FESS</u></b>			
<ul style="list-style-type: none"> <li>• ENT motor system with display, two motor outputs, integrated irrigation pump and integrated module, Including:</li> <li>• ENT motor system Mains Cord Irrigator Rod</li> <li>• Single/Two-Pedal Footswitch, two-stage, with proportional function Silicone Tubing Set, for irrigation, sterilizable</li> <li>• Clip Set, for use with Tubing Set Connecting Cable, length 100cm Single Use Tubing Set, sterile, package of 3</li> <li>• Shaver Handpiece, for use ENT oscillation mode range from 3000 to 10000</li> <li>• Suction Shaver Blade with integrated irrigation for Handpiece, straight, Autoclavable,</li> <li>• Double serrated cutting edge, rectangular cutting window, diameter 4mm, length 12cm, for use with Hand pieces</li> <li>• Suction Shaver Blade with integrated irrigation for Handpiece straight, Autoclavable, concave cutting edge, oval cutting window, diameter 4mm, length 12cm, for use with Hand pieces.</li> <li>• Suction Shaver Blade with integrated irrigation for Handpiece angled, Autoclavable, concave cutting edge, oval cutting window, diameter 4mm, length 12cm, for use with Hand pieces.</li> </ul>			
<b>Accessories:</b>			
Sterilization system complete consisting of standard accessories or following.			
Container for sterilization system.			
Cleaning Brush.			
Oil for Lubrication 5 bottles.			
<b><u>WARRANTY:</u></b>			
5 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
USA / EUROPE / JAPAN			

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Serial No	29		
Estimated Cost	7865000	Quantity	1
Generic Name	Stroboscope system		
Clinical Purpose	To Diagnose the Layrings		
<b>TECHNICAL SPECIFICATIONS</b>			
<ul style="list-style-type: none"> <li>• Stroboscopy Footswitch, footswitch with USB port and integrated activation key for stroboscopy function (plug &amp; play), for use with Camera Sysytem</li> <li>• Tele-Laryngo-Pharyngoscope, with integrated lateral telescope 90°, diameter 5.8 mm, length 20 cm, autoclavable, fiber optic light transmission incorporated, color code: blue</li> <li>• Handle, for use with Tele-Laryngoscope</li> </ul>			
Strobo-Laryngoscope, with integrated lateral telescope 70°, oval sheath, 7.2 x 9.3 mm, working length 17 cm, autoclavable, fiber optic light transmission incorporated, color code: yellow			
Accessories: Sterilization and storage system complete			
Optional(if any):			
<ul style="list-style-type: none"> <li>• Endoscopic video unit with 2 camera inputs for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), incl. LED light source, digital Image Processing Module with USB and network storage options as well as 18.5" FULL HD touch screen monitor, power supply 100 – 240 VAC, 50/60 Hz, including 400 F Mains Cord, length 300 cm</li> <li>• One-Chip FULL HD Camera Head, 50/60 Hz, fixed focus, progressive scan, soakable, gas- and plasma-sterilizable, focal length f = 16 mm, 2 freely programmable camera head buttons, for use with Camera Control Unit</li> <li>• Fiber Optic Light Cable, with straight connector, extremely heat- resistant, enhanced light transmission, diameter 4.8 mm, length 250 cm</li> <li>• Microphone Set,</li> <li>• consisting of:</li> <li>• Microphone Fitting Microphone Holder Connector for Microphone Membrane, For use with Camera System</li> <li>• Trolly Localy Supply</li> </ul>			

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<b>Serial No</b>	30		
<b>Estimated Unit Cost</b>	5,000,000	<b>Quantity</b>	10 Syringe Pump + 3 Docking Station
<b>Generic Name</b>	<b>SYRINGE PUMP WITH DOCKING STATION</b>		
<b>Clinical Purpose</b>	Syringe pumps will capable to deliver fluids and medicines into a patient body in controlled manner (Time, Rate & Volume) through various sizes of Disposable Syringes.		

**TECHNICAL SPECIFICATIONS**

- Syringe pump for fluid administration.
- Flow Rates: 0.1 -900 ml/hr. (Approx.)
- Bolus rate: 0.1 to 1200 / hr.
- LCD display of set parameters
- Universal Syringe acceptance capability for disposable, Plastic, Size, 5, 10, 20, 50, 60 ml
- Drive Accuracy.  $\pm 3\%$
- Display of drug name, Infusion rate, infused volume and volume to be infused
- Set Automatic adaptation of controls according to syringe /infusion set
- Quick freed/rapid infusion facility/bolus
- KVO Functions (Keep vein open)
- Data event log
- Safety alarm & indicator: Occlusion pressure alarm, end of infusion, loose syringe alarm, low battery, and technical malfunction alarm,
- Rechargeable battery and mains operated 220V, 50Hz
- Battery backup 3 hours or more.

**ACCESSORIES**

- System should be supplied with complete accessories.
- IV pole local made with 5 wheels for firm grip and stability of Syringe Pump (Subject to sample).

**OPTIONAL:** (Mandatory to quote)

Compatible docking stations (For minimum 03 syringe pumps Qty 10)

**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**Trainings:**

Compressive High end service training of Biomedical Engineer at site of manufacturer for 1 week

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

<b>Serial No</b>	<b>33-37</b>		
<b>Estimated Cost</b>	19,867,800	<b>Quantity</b>	2,2,2,2,1
<b>Generic Name</b>	<b>NEONATAL UROLOGY BASIC SET</b>		
<b>Clinical Purpose</b>	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 SPECIFICATIONS**

**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 30° Degree (1.2mm, 1.9mm)
- Cystoscope Sheath (9.0Fr - 14Fr)
- Adopter with 1 Instrument port
- 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
- Endoscopic Micro scissors 5 Fr
- HF Cable

**OPTIONAL**

- Insert with Deflector

**RESECTOSCOPE FOR NEONATES QTY 2**

- Telescope 0° Degree (1.9 mm)
- Resectoscope Sheath 8-9 Fr
- Working Element
- Cutting Loop
- Hook electrode
- Coagulating electrode
- Operating (Compact) cysto-urethroscope 5°- 7° Degree (4.5/6.5 Fr) with straight working channel

**OPTIONAL**

- Instrument port

**RESECTOSCOPE FOR INFANTS & CHILDREN QTY 2**

- Telescope 0° Degree (2.7 mm)
- Resectoscope Sheath 11-13 Fr
- Working Element with electrode attachment

Cutting Loop  
Hook electrode  
Coagulating electrode  
Bladder syringe compatible 50-100 ml  
Accessories:  
Sterilization Container  
Protection Tube.  
**OPTIONAL**  
Instrument port  
Telescope Bridge compatible  
**OPTICAL URETHROTOME PAEDS QTY 1**  
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.

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	38		
<b>Estimated Cost</b>	3388000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>PEDIATRIC UROLOGY BASIC SET</b>		
<b>Clinical Purpose</b>	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 SPECIFICATIONS****CYSTOSCOPE & RESECTOSCOPE FOR ADOLESCENT**

Telescope 0° 30° Degree (2.7 mm)  
 Cystoscope sheath 14-15 Fr  
 Resectoscope Sheath 14-15 Fr  
 Telescope Bridge compatible  
 Instrument port  
 Working Element with electrode attachment  
 Cutting Loop  
 Hook electrode  
 Coagulating electrode  
 Grasping Forceps 5-7 Fr  
 Cold knife (Straight, round, sickle & hook)  
 Endoscopic Micro scissors 5-7 Fr  
 Bladder syringe compatible 50-150 ml.  
**Accessories:**  
 Sterilization Container.  
 Protection Tube

**WARRANTY:**

3 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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<b>Serial No</b>	39		
<b>Estimated Cost</b>	1829000	<b>Quantity</b>	1
<b>Generic Name</b>	<b>Irrigation Pump with pressure monitor system for endoscopy system</b>		
<b>Clinical Purpose</b>			
<b>Technical Specification:</b>			
<b>SUCTION IRRIGATION UNIT</b>			
<ul style="list-style-type: none"> <li>• Line voltage: 100-240 VAC, 50/60 Hz.</li> <li>• Separately available and at any time installable software modules.</li> <li>• Irrigation pressure during flow controlled procedures*: -max.500mmHg*. Irrigation flow during flow controlled procedures:</li> <li>• Depending on software can be from min100ml/min to 3500ml/min. Irrigation pressure during pressure controlled procedures: -20-150mmHg. (Accuracy &lt;100mmHg: +/-10mmHg; Accuracy 100 - 150 mmHg: +/- 20%). Automated recognition of attached tubing sets (additional safety).</li> </ul>			
<b>WARRANTY:</b>			
5 Year comprehensive warranty including consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

<b>Serial No</b>	40		
<b>Estimated Cost</b>	3,540,000	<b>Quantity</b>	2
<b>Generic Name</b>	MINI PCNL		
<b>Clinical Purpose</b>	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		
<b>TECHNICAL SPECIFICATIONS</b>			
<p>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 QTY 5.                  Grasping forceps with alligator Jaw QTY 5.                  OPTIONAL MANDATORY TO QUOTE                  Compatible suction irrigation pump.</p>			
<b>Accessories:</b>			
Standard Accessories to execute the functioning task and sterilization process if any.			
<b>WARRANTY:</b>			
3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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Serial No	41		
Estimated Cost	9,086,000	Quantity	5
Generic Name	MICRO PCNL		
Clinical Purpose	This is further miniaturization of Mini PCNL and it is done always with LASER technology (stone dusting).		
<b>TECHNICAL SPECIFICATIONS</b>			
<p>A.Semi rigid optic/Telescope modular PCNL 10,000 pixel / 120°  Optic shifter  Micro PCNL Sheath 7.8 Fr or less  Pump for grasping stone Sterilization Container  Compatible suction irrigation pump  (All accessories must be compatible with sheath size of the manufacturer)  Nephroscope Catheter- Needle Disposable (set of 6)  Required Parameter:-  Outer diameter: 4.6 Fr  Working channel: 3.6 Fr  Working length: 152mm</p> <p>B.Fiber Nephroscope  Required Parameter:-  Working length: 85mm  Working channel: 0.8mm  Field of view: &gt; 80-degree  Direction of view: 0  Resolution: 10000-pixel  Sterilization Methods: Ethylene Oxide Gas &amp; Low Temp Plasma.  Note: Semi rigid and Fiber Nephroscope may deal as separate package.</p>			
<b>Accessories:</b>			
All standard accessories to execute the mentioned tasks			
<b>WARRANTY:</b>			
3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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Serial No	42-43		
Estimated Cost	10,758,000	Quantity	2-2
Generic Name	Peadricuretero-Renscope		
Clinical Purpose			
<b>TECHNICAL SPECIFICATIONS</b>			
<p><b>1. Uretero-renoscope</b>  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</p> <p><b>2. Uretero-renoscope</b>  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) QUANTITY 2  Biopsy Forceps(Compatible with sets) QUANTITY 1  2or 3 prong forceps (Compatible with Set) QUANTITY 2  Sterilization Tray compatible with sets</p>			
<b>Accessories:</b> Stone Basket,			
<b>WARRANTY:</b> 3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b> USA/ EUROPE / JAPAN			

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<b>Serial No</b>	44		
<b>Estimated Cost</b>	1,180,000	<b>Quantity</b>	5
<b>Generic Name</b>	VIDEO FLEXIBLE URS		
<b>Clinical Purpose</b>	Endoscopy means looking inside and typically refers to looking inside the body for medical reasons using an endoscope, an instrument used to examine the interior of a hollow organ or cavity of the body. Unlike most other medical imaging techniques, endoscopes are inserted directly into the organ.		
<b>TECHNICAL SPECIFICATIONS</b>			
Flexible Video URS Set with Chip on tip Comprising of: Cleaning brush (pack of 10 pcs) Adapter Leakage tester Pressure equalization valve/ clamping element Pack of 20 with container			
<b>TECHNICAL DATA</b> Distal tip: cylindrical, atraumatic, Sheath diameter: 8.5 to 9.9 Fr or better Number of working channels: 2 Channel or 1 Channel with two port bridge. Angulations: 270° or better Upward/Downward, Viewing angle: 80° or more Working length: 60- 70 cm			
<b>Accessories:</b> Ureteric access sheath different size (Compatible)			
<b>WARRANTY:</b> 3 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b> USA/ EUROPE / JAPAN			

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<b>Serial No</b>	45		
<b>Estimated Unit Cost</b>	27830,000/	<b>Quantity</b>	1
<b>Generic Name</b>	<b>OPERATIVE LAPAROSCOPE PEDIATRIC -3D</b>		
<b>Clinical Purpose</b>	3D Laparoscope is used for the surgical procedure in which fine instruments are inserted through abdominal wall to view the organs in 3D vision for depth perception, in the abdomen or permit small scale surgery		

**TECHNICAL SPECIFICATIONS**

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 /LED 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 CO2 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.

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**LIST OF INSTRUMENTS REQUIRED FOR GENERAL SURGERY.**

**TELESCOPE (Procuring agency to specify)**

- ◆ 5 mm, Straight Forward Telescope 0°, length (25-35) cm, autoclavable
- ◆ 5 mm, Straight Forward Telescope 30°, length (25-35) cm, autoclavable
- ◆ 10 mm, Straight Forward Telescope 30°, length (25-35) cm, autoclavable
- 10 mm, Straight Forward Telescope 30°, length (25-35) cm, autoclavable

**A. Set of Instruments 3-3.5mm length 20-24 cm**

1. Trocar, size 3.5 mm, with pyramidal tip, Cannula with locking mechanism, length (3-6 cm) **QTY 03**
2. Kelly Dissecting and Grasping Forceps, rotating, size (3-3.5) mm, length 20-24 cm
3. Bipolar Kelly Grasping Forceps rotatable, with connector pin, especially suitable for dissection, double action jaws, size 3.5 mm, length 20-24cm,
4. Maryland dissecting forceps, rotating, with unipolar connecting pin, size 3mm, length 20-24cm
5. Dissecting and Grasping Forceps, Right Angle (Lahey) rotating, size (3-3.5) mm, length 20-24cm
6. Debaky(Johan) forceps, rotating, size 3mm. length 20-24cm
7. Dissecting Grasping Forceps, **traumatic**, rotating, size (3-3.5) mm, length 20-24cm
8. Dissecting and Grasping Forceps, **atraumatic**, fine serration, rotating, size 3.5mm, length 20-24 cm
9. Bipolar Grasping Forceps rotatable, with connector pin, with fine atraumatic serration, fenestrated, double action jaws, size 3.5mm, length 20-24 cm
10. Babcock Grasping Forceps, fenestrated, rotating, 3mm, length (20-24) cm double action jaws
11. Multifunction grasping forceps, 1x2 teeth, size 3mm, length 20-24cm
12. Bowel grasping forceps, two rows of traumatic teeth, size 3mm, length 20-24cm.
13. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 3mm, length 20-24 cm,
14. Allis forceps, rotating, size 3mm, length 20-24cm
15. METZENBAUM Scissors, rotating, with connector pin for unipolar, size 3 mm, length 20-24 cm
16. Scissors straight, rotating, insulated, unipolar connecting pin, size (3-3.5) mm, length 20-24 cm
17. Micro Hook Scissors, rotating, with unipolar connecting pin, size (3-3.5) mm, length 20-24 cm
18. Bipolar Scissors rotatable, with connector pin, curved blades, double action jaws, size 3.5 mm, length (20-24) cm
19. Coagulating and Dissecting Electrode, L-shaped for unipolar coagulation, size 3 mm, length 20-24 cm
20. Fan Retractor, dismantling, distendable, 3mm, length 20-24 cm
21. Suction and Irrigation Tube, with lateral holes, size 3mm, length 20-24 cm, for use with handle
22. Suction and coagulation cannula 3mm with connector pin, unipolar 20-24cm
23. Aspiration needle 3mm, 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 3mm, length 20-24 cm
28. Verrees access needle 6-8cm
29. Needle Holder, with tungsten carbide inserts, straight handle with ratchet, jaw straight, size 3 mm, length 20-24cm

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30. Needle Holder, with tungsten carbide insert, straight handle with ratchet, jaws curved to left, size 3mm, length 20-24cm
31. Instrument container from same manufacturer
32. Telescope sterilization container from same manufacturer

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

1. Trocar, size 5 mm, with pyramidal tip, Cannula with locking mechanism, length (5-6.5 cm) **QTY 03**
2. Trocar, size 10 mm, with pyramidal tip, Cannula with locking mechanism, length (6-10cm) **QTY 03**
3. Reducer sleeve 10mm to 5mm #2
4. Kelly Dissecting and Grasping Forceps, rotating, size 5 mm, length 30-36 cm
5. Bipolar Kelly Grasping Forceps rotatable, with connector pin, especially suitable for dissection, double action jaws, size 5 mm, length 30-36cm,
6. Maryland dissecting forceps, rotating, with unipolar connecting pin, size 5mm, length 30-36cm
7. Dissecting and Grasping Forceps, Right Angle (Lahey) rotating, size 5 mm, length 30-36cm
8. Debaky(Johan) forceps for vessels handling, rotating, size 5mm. length 30-36cm
9. Dissecting Grasping Forceps, **traumatic**, rotating, size 5 mm, length 30-36cm
10. Reddick-Olsen dissecting forceps, Heavy.
11. Dissecting and Grasping Forceps, **atraumatic**, fine serration, rotating, size 5mm length 30-36 cm
12. Bipolar Grasping Forceps rotatable, with connector pin, with fine atraumatic serration, fenestrated, double action jaws, size 5mm, length 30-36cm
13. Babcock Grasping Forceps, fenestrated, rotating, 5mm, length 30-36 cm double action jaws
14. Multifunction grasping forceps, 1x2 teeth, size 5mm, length 30-36 cm
15. Bowel grasping forceps, two rows of traumatic teeth, size 5mm, length 30-36cm.
16. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 5mm, length 30-36 cm,
17. Claw Grasping Forceps rotating, 2 x 3 teeth, single action jaws, size 10mm, length 30-36 cm
18. Allis forceps, rotating, size 5mm, length 30-36cm
19. METZENBAUM Scissors, rotating, with connector pin for unipolar, size 5 mm, length 30-36 cm
20. Scissors straight, rotating, insulated with unipolar connecting pin, size 5 mm, length 30-36 cm
21. Scissors curved/angled, rotating, insulated with unipolar connecting pin, size 5 mm, length 30-36 cm
22. Micro Hook Scissors, 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
27. Suction and coagulation cannula 5mm with connector pin, unipolar 30-36cm

**LIST OF INSTRUMENTS REQUIRED FOR PEDIATRIC UROLOGY**

1. Aspiration needle 5mm, length 30-36cm
2. Unipolar High Frequency Cord, with 5mm plug, length 300 cm, for use with HF system
3. Bipolar High Frequency Cord, length 300 cm,
4. Adaptor for cleaning, with Metal- handle, without ratchet
5. Knot tier, for extracorporeal knotting, size 5mm, length 30-36 cm
6. Verres access needle 8-10cm
7. Needle Holder, with tungsten carbide inserts, straight handle with ratchet, jaw straight, size 5 mm, length 30-36cm
8. Needle Holder, with tungsten carbide insert, straight handle with ratchet, jaws curved to left, size 5mm, length 30-36cm
9. Biopsy forceps 5mm, length 30-36cm
10. Retractor 5mm (3-5 blades)
11. Thread manipulator 5mm
12. Knot pusher
13. Clip applicator 5 mm (medium, large) **QTY.02**
14. Clip applicator 10 mm (small, medium, large) **QTY.01**
15. Vascular clamp (Stansiky/bulldog) with applicator (small, medium, Large) **one each**
16. Instrument container from same manufacturer
17. Telescope sterilization container from same manufacturer

**WARRANTY:**

5 years comprehensive warranty of all parts including consumables

**TRAINING:**

Comprehensive High End service Training of Biomedical Engineer at site of manufacturer for 1 week.

**COUNTRY OF MANUFACTURER**

USA/ Europe/ Japan

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Serial No	46		
Estimated Cost	Rs. 3025000/-	Quantity	01
Generic Name	ADVANCE BIPOLAR DIATHERMEY		
Clinical Purpose	Diathermy with Vessel Sealing System is used for normal and under water cutting and coagulation in various open and laparoscopic procedures.		
<b>TECHNICAL SPECIFICATIONS</b>			
Touch screen generator with 350 Watts or more.			
<ul style="list-style-type: none"> <li>• Microprocessor based solid state electrosurgical unit for normal and under water cutting with permanent safe sealing of vessel on tissue bundle: 7mm. thermal spread should be minor.</li> <li>• RF power for monopolar cutting not below 350 watts or more with 5-watt step increment or less.</li> <li>• Monopolar coagulation 120 Watt or better.</li> <li>• At least 3-4- blend/effect modes.</li> <li>• Monopolar Coagulation: 120 watts or more.</li> <li>• Bipolar Coagulation 100 watts or more.</li> <li>• Bipolar cutting 120 watt or more.</li> <li>• Spray Coagulation</li> <li>• 220 VAC, 50 Hz.</li> </ul>			
<b>Accessories :</b>			
5 X Advance Bipolar Shear/Hand pieces Maryland Jaw Laparoscopic Sealer/Divider 5mm Dia 37mm length			
<b>WARRANTY:</b>			
5 years comprehensive warranty including all parts and consumables			
<b>COUNTRY OF MANUFACTURER:</b>			
USA/ EUROPE / JAPAN			

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Serial No	47		
Estimated Cost	Rs. 3146,000/-	Quantity	01
Generic Name	MOBILE ULTRASOUND COLOR DOPPLER (LOW END)		
Clinical Purpose	It is immediately available imaging modality with its main use in obstetrical and antenatal care likewise in conditions when ionizing radiations are contra indicated		

**TECHNICAL SPECIFICATIONS****TECHNICAL SPECIFICATION**

1. Color Doppler Ultrasound system with Fully Digital Beam former having 2D / M-Mode and Doppler Facilities, (PW & Color Flow Imaging) with High Resolution Imaging Doppler Signal Quality
2. Ultrasound unit must have the following applications for adults and paediatrics:
  - Abdominal and pelvic
  - Obstetrics and gynecological.
  - Small parts.
  - Vascular imaging
  - Transcranial
  - Cardiac
3. To provide Comprehensive Software Package for Measurement of Distance, Circumference, Area, Time Depth, Angle, Velocity, Frequency, Heart Rate, Volumes, Nuchal Thickness/Measurement Software to be Provided as a Standard.
4. Unit should be capable of offering a frame rate of  $\geq 500$  frames per second.
5. Unit should offer 19-inch or more high definition LCD/LED colour monitor.
6. Ergonomic design keyboard. Details must be stated.
7. Brightness / contrast adjustment on monitor.
8. Programmable panel with changeable labels.
9. Unit must be housed on a ergonomic and compact mobile cart with lockable wheels for easy maneuverability.
10. Post processing must be available in 2D, Color Doppler, Spectral Doppler, M-Mode
11. One-button optimization in 2D and Doppler modes
12. Touch screen Control Panel must be 10 inch or more.
13. 4 Active transthoracic probe ports.
14. Cable tray /hooks cable support system.
15. Foot-Switch
16. Easy removable air filters.
17. Voltage: 220V - 240V, 50 - 60 HZ
18. CINEWAVE UPS Online with 30 minutes back up time for the System. (IMPORTED (EUROPE/USA/JAPAN)



19. The system dynamic range must be 250db or more.
- Functionality 20. Image format to operate in dual and quad screen.
21. Independent gain control for Pulsed Wave Doppler.
22. Scanning Operating Modes: B-mode, M-mode, Pulsed Wave Doppler (Spectral), Continuous Wave Doppler, Tissue harmonics Power Doppler and Color Doppler.
23. Pulse Repetition Frequency (PRF) / Velocity must be adjustable in increments.
24. Pulse Repetition Frequency (PRF) / Velocity values must be displayed on the screen. 25. Transducer Frequency must be displayed.
26. Unit should have directional Power Doppler functionality.
27. M-mode / Doppler review (cine playback or loop) of 1000 frames or more.
28. M-mode / Doppler to be steerable.
29. Independent B-mode and Color Doppler gain adjustment must be available.
30. Independent image optimization of each mode must be available.
31. The Maximum scanning depth must be 30cm or more .
32. One button auto image optimization should be available.
33. Internal Hard drive with minimum usable storage space 500GB. You must be able to store videos and still images on internal hard drive.
34. Auto deletion of images should be managed (activated / de-activated) by the user.
35. Black and white digital thermal printer attached to the unit must be included.
36. The ultrasound unit must include a CD/DVD Writer/Recorder drive as a standard.
37. The CD/DVD Writer/Recorder must be compatible with all types of computers/laptops.
38. 2 x USB Port for printer & memory stick use should be an integral part the unit for storage/recording of real time loops (video) and still images.
39. The system must be DICOM 3.0 compliant.
40. Advanced DICOM including full worklist must be included in Main Unit.
41. Export of images from the system must be possible via LAN, USB, CD and DVD (including transfer of images to PACS) .
42. On screen measurements must be possible on real time examination.
43. Display of graphs must be available to compare measurements of twins , triplets in single and quad display.
44. User should be able to programme exam presets.
45. Unit must offer user programmable annotation for quick labelling.
46. Must have software to detect and prevent motion artifacts cause by user or patient.
47. Storage and review of patient data must be available for comparative exams. Transducers
- 48 All Transducers must be supplied by same Manufacturer.
49. The selected frequency of the imaging transducer must be displayed on the screen.
50. 2 – 6 MHz Multi-Frequency Convex Probe for B/M/CDI/PW.

51. 5-9 MHz Multi-Frequency Linear Probe for vascular studies 52.  $\pm 2$  MHz in probe frequency may considered as minor variations SOFTWARE:

53. Compound Imaging.

54. Speckle Reduction - Refines images (reduces noise).

55. Measurement and Report software packages must be configurable.

56. Tissue Harmonic imaging without contrast with 4 harmonic frequencies

57. Pure Wave / Pulse Inversion / Differential Tissue Harmonic Imaging/CPI/HD-THI or similar.

58. Auto Image Optimization / Quick Scan Imaging for Automatic STC / GAIN and Doppler Spectrum

Adjustment with Optimal Image Quality by using One Touch Operation

59. B-Flow / Dynamic Flow Imaging / E-Flow / Clarify.

60. Panoramic /SIESCAPE / Logic view Imaging with Measurements

61. "Trapezoid Imaging / Virtual Convex Imaging with Linear Probe.

62. Compound / Aplipure Imaging for THI/both Frequency Compounding and Spatial

63. Compounding in B/W and Color Mode."

64. Panoramic /SIESCAPE / Logic view Imaging with Measurements Accessories

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

66. UPS: on line with sine waves 2 KVA with thirty minutes back up time. (IMPORTED)

67. 50 High Density / High Glossy thermal paper Rolls

68. Gel: 20 liters FUTURE UPGRADES:

69. The unit should have the capability for upgrading of future software (shall be provided free of cost within the warranty period). OPTIONAL ITEMS 7

0. TVS/ENDOCAVITORY Color PROBE.

71. 7-13 MHz Multi-Frequency Linear Probe for B/M/CDI/PW for musculoskeletal studies.

72. Continuous Wave Doppler software to be activated relevant to the end user.

73. Neonatal/Paediatric Cardiac Probe (3-10 MHz).

74. Adult Cardiac Probe with tissue harmonics (1-4MHz).

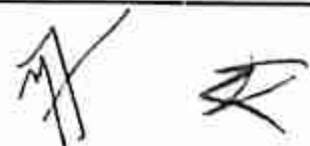
**WARRANTY:**

5 years comprehensive warranty including all parts and consumables

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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Serial No	48		
Estimated Cost	783520/-	Quantity	02
Generic Name	HAND HELD DOPPLER ULTRASOUND		
Clinical Purpose			
<b>TECHNICAL SPECIFICATIONS</b>			
<b><u>WARRANTY:</u></b>			
3 years comprehensive warranty including all parts and consumables			
<b><u>COUNTRY OF MANUFACTURER:</u></b>			
USA/ EUROPE / JAPAN			

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Serial No	49		
Estimated Unit Cost	113,740,000	Quantity	01
Generic Name	<b>EXTRACORPOREAL SHOCKWAVE LITHOTRIPTER INTERGRATED TYPE.</b>		
Clinical Purpose	Extracorporeal shockwave lithotripsy (ESWL) is a non-invasive treatment of kidney stones and biliary calculi (stones in the gallbladder or in the liver) using an acoustic pulse. It is also reported to be used for salivary stones and pancreatic stone.		

**TECHNICAL SPECIFICATIONS**

Shockwave Lithotripter will be a complete dedicated integrated system; capable of treating the urinary stones with other special urological applications by using outline / inline/ free line localization system of Ultrasound 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 SYSTEM:**

Shockwave generator	Electromagnetic
No. of Shockwave System:	One
Triggering Method	Auto & manual
Selection of Energy	Variable
Energy Density	0.4 mJ/mm <sup>2</sup> or better
Energy Density Maximum	2.5mj/mm <sup>2</sup> or mor
Penetration depth of waves	Min. 170mm or more
Focal Pressure:	73 Mpa or better
Rate of Shockwaves:	70mm <sup>2</sup> or better
Pressure at Focus;	Min 50MPa
Rate of Shockwaves:	Variable up to 120 / minute or more
Water system:	Closed loop, integrated fix
Control	Both through main console and remote via touch screen monitor

**IMAGING / LOCALIZATION MODES**

Localization system	X-Ray and Ultrasound
Automatic Stone positioning	Inline /free line localization/Outline
a) X-Rays Image Intensifier	
Type:	Integrated Isocentric C-arm
X-ray Generator:	High Frequency inverter type
Output power generator	15KW or more
Size of I.I / FPD:	23cm / 21x21c
Pickup Tube	CCD/FPD
Continuous Fluoroscopy	12.5MA or mor
Pulsed Fluoroscope	up to 100MA or better
Digital Radiography KV	40 – 120KV
Digital Radiography MA	100MA or more
Automatic KV and MA control for optimal image quality.	
X-ray tube focal Spot	Dual 0.3 / 0.6 mm Anode
Heat Storage capacity	300KHU or more
Memory:	LIH
Monitor:	43cm or more
b) Ultrasound	
Type:	Trolley Mounted
Transducer:	Multi frequency, Convex 3.5Mhz.

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Resolution	256 gray levels
Monitor Size:	30 cm/ more
Depth	24cm

**DIANOSTIIC X-RAY:**

The X-ray system will be used for fluoroscopy.

The radiation protection measures / accessories must be provided with the system.

LCD Medical Grade (Dual) 46 cm or more

X-Ray, Ultrasound and stone phantoms for calibration

**PROCEDURE TABLE: -**

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

Type	Integrated special motorized table
Height	Adjustable
Weight Bearing Capacity	Min 180 Kg
Movements:	Four-way movements
Patients positing	Automatic
Tabletop:	Radio translucent

Complete with relevant accessories.

Lead Aprons 1.5mm FDA Approved single piece: 4 Medium

Suitable for Litho& Endo urological and diagnostic procedure.

Tilttable, Complete with leg holders and douche tray.

**OPERATING CONSOLE: Control:** Control of all functions must be available at the operating console & on table.

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

Communication Software:

DICOM-3 Computable UPS must provide with the supplied machine

**POWER REQUIREMENT: -**

Voltage: Three / Single phase, 50Hz

**UPS :**

Online Ups with minimum 30 minutes backup of complete system

**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 /Air conditioning at machine site, waiting area and operating room/designated area preparation waiting area renovation as per demand of end-user .

**WARRANTY:**

5 years comprehensive warranty including all parts(Ultrasound probes ,X-rays Tube, Shockwavehead, bellow etc)

**Trainings:**

One foreign comprehensive high end service training of Biomedical Engineer at site of manufacturer for 2 weeks

**COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

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**Procurement of Electro Medical Equipment, Plant & Machinery and IT Equipment for Up-gradation of Peadiatric ENT, Cochlear Implant, Peadiatric Urology Sr. No: 50**

**Desktop Computer System Core i7 (with Complete Accessories) Quantity: 09**

Sr#	Specifications	
1	Processor	Intel 12 th Generation Core i7 3.8 To 5.0 GHz (Base Frequency)
2	Mother Board	Intel Chipset
3	Memory	16 GB DDR- 4 or higher (Support up to 64GB)
4	Hard Disk Drive	1 TB
5	SSD	256 GB or Higher
6	Video/Display Card	Intergated
7	Sound Card	Intergated
8	Integrated I/O	Six USB Ports (USB 2.0/3.0/3.1), PCI/PCIe Slot etc, HDMI/VGA Port
9	Network	Built-In Gigabit Enternet, Wireless, Lan a/b/g/n or ac
10	Super Drive	Yes
11	Graphic Card	Built-In
12	Mouse & Key Board	USB Wired Keyboard, 2-Button USB 2.0 Optical Mouse
13	Operating System	Windows 10 Pro upgradable Windows 11 Pro
14	Warranty	1 Year's Manufacture's Warrenty
15	Display	19.5" Inches or higher LED Monitor. FHD 1920*1080, 250cd/m, Anti-glare, Tilt, 1 x HDMI, Including all cables)
16	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe

**Note: All Items under this lot must be of same brand.**

**UPS (with Complete Accessories)**

**Quantity: 09**

Sr#	Specifications	
1	Output power capacity	325 Watts / 650VA
2	Output Connections	Universal receptacle (Battery Backup)
3	Nominal Output Voltage	230V
4	Nominal Input Voltage	230V
5	Input Connections	NEMA 5-15P
6	Cord Length	1.2meters
7	Maximum Input Current	5.0A
8	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe

**Procurement of Electro Medical Equipment, Plant & Machinery and  
IT Equipment for Up-gradation of Peadiatric ENT, Cochlear  
Implant,Peadiatric Urology Sr. No: 51**

**Laserjet Printer (Black&White)(with complete Accessories) Quantity: 05**

Sr. #	Specifications	
1	Print Technology	LaserJet
2	Print Quality(Mono)	Up to 1,200 x 1,200 dpi
3	Print speed	10 ppm & above
4	Monthly duty cycle	10,000 pages & above
5	Connectivity, standard	Hi-Speed USB
6	Power	input voltage: 220 to 240
7	Printing Paper Size	A4, A5, A6, Envelope
8	Color Detail	Black & White
9	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe

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**Procurement of Electro Medical Equipment, Plant & Machinery and IT  
Equipment for Up-gradation of Peadiatric ENT, Cochlear  
Implant, Peadiatric Urology Sr. No: 52**

**Multimedia Projector (with Complete Accessories & Complete Installation) Quantity: 02**

Sr. No	Specifications	
1	Projection System:	3 LCD / DLP
2	Resolution Minimum	1280 × 800 Pixels (WUXGA)
	Resolution Maximum	1920 × 1200 Pixels (WUXGA)
3	Brightness	4000 Lumens and above
4	Contrast ratio	20,000:1
5	Display Color	1.07 billion colors
6	Aspect ratio	Native 4:3
7	Light Source	Lamp
8	Optical	Throw Ratio: 1.54–1.72 , Zoom Ratio: 2x Lens Control Manual Zoom and Focus
9	Audio:	Built-in Speaker:
11	USB Port	1 × Type A ,1 × Type B
12	Inputs	1 × RGB, 2 × HDMI, 1 × VGA 1 × Video (RCA)
13	Outputs	1 × RGB,
14	PC Control	1 × PC Control Port (D-Sub 9 P)
17	Country of Manufacturing & Origin	Any Country Incuding China, Japan, USA, Europe
<b>Projctor Screen</b>		
Sr. No	Specifications	
1	Size	10ft × 8ft
2	Inches	150 Inch
3	Type	Manual
<b>Projctor Stand</b>		
Sr. No	Specifications	
1	Size	3 Ft Adjustable
2	Type	Metal / Ceiling Mount Square
<b>HDMI Cable 20 Meter</b>		
Sr. No	Specifications	
1	Size	20 Meter
2	Type	4k Supported high Quality
<b>Wireless Slide Changer</b>		
Sr. No	Specifications	
1	Type	Wireless

**Procurement of Electro Medical Equipment, Plant & Machinery  
and IT Equipment for Up-gradation of Peadiatric ENT, Cochlear  
Implant,Peadiatric Urology Sr. No: 53**

**Laserjet Printer+ Sacaner+Photo Copier(Black&White)**

(with complete Accessories) Quantity: 04

Sr. #	Specifications	
1	Print Technology	LaserJet
2	Device Category	All in one Multifuncation
3	Funcations	Print, Copy, Scan
4	Print Quality(Mono)	Up to 600 x 600 dpi
5	Print speed	Standard
6	Monthly duty cycle	10,000 pages & above
7	Connectivity, standard	Hi-Speed USB
8	Power	input voltage: 220 to 240
9	Printing Paper Size	A4, A5, A6, Envelope
10	Color Detail	Black & White
11	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe

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**Procurement of Electro Medical Equipment, Plant & Machinery and IT Equipment for Up-gradation of Peadiatric ENT, Cochlear Implant, Peadiatric Urology Sr. No: 54**

**Internet Networking Equipment with all accessories**

Sr. No	Item Description	Specifications	Qty
1	Fiber Optical Cable (6Core)	6-Core Indoor/Outdoor Single Mode Fiber Cable (Per Meter)	2000 Meter
2	ODF 6 Core Fiber Optics	Optic Fiber Distribution Box ODF 06 core	10 Nos.
3	Fiber Media Converter (Gigabyte)	Fiber Media Converter 10/100/1000	6 Pair
4	Fiber Optical Patch Cable	Fiber Patch Codes LC to LC Duplex (3 Meter)	15 Nos.
5	Face Plates	(Single Shutter With loaded I/O)	30 Nos.
6	Back Box	Back Box for face plate	30 Nos.
7	Cat 6 Patch Cable (1" Feet)	Cat 6 patch cord 24 AWG (Pure Copper)	50 Nos.
8	Cat 6 Patch Cable (3" Feet)	Cat 6 patch cord 24 AWG (Pure Copper)	50 Nos.
9	Cat 6 Cable	Cat 6 Cable 24 AWG (Pure Copper)	19 Roll
10	Networking Switch 16 Port (Gigabyte)	10/100/1000	8 Nos.
11	Networking Switch 8 Port (Gigabyte)	10/100/1000	10 Nos.
12	Wireless Router	300Mbps to 450 Mbps	20 Nos.
13	RJ45 Connector	RJ45 Connector	15 Nos.
14	4U Cabinet	AWG 18 to 20, With Cooling fan	8 Nos.
15	Electric Cable	2 Core 3/29 Pure Copper	5 Nos.
16	Electric Cable	2 Core 7/29 Pure Copper	2 Nos.
17	Power Distribution Unit	8 Port Multi-Socket Power Distribution Unit	10 Nos.
18	Power Extensions (Imported)	220v To 240V with Multiplug	10 Nos.
19	Patch Panel 16 Ports + loaded I/O	Patch Panel 16 Ports + loaded I/O	8 Nos.
20	PVC Flexible Pipe 2" (150 ft Roll)	PVC Flexible Pipe	2 Nos.
21	Duct 16*38	Duct 16*38	10 Leghts
22	Duct 16*25	Duct 16*25	10 Leghts

**Procurement of Electro Medical Equipment, Plant & Machinery  
and IT Equipment for Up-gradation of Peadiatric ENT, Cochlear  
Implant, Peadiatric Urology Sr. No: 55**

**Digital Camera (High Definition)**

(with

complete Accessories) Quantity: 01

Sr. #	Specifications	
1	Technology	DSLR
2	Body type	SLR-style mirrorless
3	Effective pixels	20 Megapixels
4	Max resolution	5568 x 3712
5	Lens	Body with 16-50mm
6	Touch screen	Yes
7	Screen type	TFT LCD
8	Format	MPEG-4, H.264
9	Modes	3840 x 2160 @ 30p, MOV, H.264, Linear PCM
10	Storage types	SD/SDHC/SDXC card (UHS-I supported)
11	Wireless	Built-In
12	Battery description	lithium-ion battery & charger
13	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe

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