

Annexure-A

No. ENT/EQUIP/12-RIMS

Imphal, 22th Oct, 2015

(All the equipment's/instruments should be US FDA approved/ CE Certified).

Item No.1:- Operating Microscope with camera and monitor system

Sl. No.	Specifications
A	<ul style="list-style-type: none"> i. Maximum -intensity 75,000 ii. Brightness- Continuously Variable iii. Filters – Built in Heat Absorbing Filter and UV, GREEN & BLUE iv. Filters with Switchable Facility v. Light- Transmission By fibre Optic cable vi. Light Source- Twin outlet 15V/150W Halogen Lamp Reflector vii. Illumination-Standard 6 Illumination coupled with (-) 2 viii. Illumination for bright Red Reflex
B	<p><u>Attachments:</u></p> <ul style="list-style-type: none"> i. Coaxial scopes ii. X/y- coordinate arm iii. Video and camera adapter iv. USES (STAINING POSTS): ENT, multidisciplinary v. POWER NEEDED, VAC(ENERGY) : 220, optical 110 vi. Watts (GENERATOR) : 200 vii. FLOOR STAND viii. WEIGHT kg (lb) (DISPLAY): 51(112) ix. Height, cm (in) (FLOORSTAND): 147(58) x. LIGHTING: Fiberoptic- xi. ILLUMINATION SOURCE : Halogen xii. Back-up (FLOOR STAND) : Yes xiii. FILTERS Cobalt blue, green xiv. Filters, other (FLOORSTAND): Neutral Density xv. Field diameter, mm (FLOORSTAND) 50 xvi. MICROSCOPE CONTROLS :All manual except power for focus Range, mm 40 xvii. Number of steps (MICROSCOPE): 5 xviii. Type (CONFIGURATION): Straight or inclined 45° xix. Focussing method (MICROSCOPE): Power xx. Eyepiece power (MICROSCOPE): 12.5x xxi. Total range (MICROSCOPE): 4x,6x,10x,16x,25x xxii. Speed, mm/sec (MICROSCOPE): 1.5 (power) xxiii. Focal length, mm (DIMENSIONS (HXWXD), MAIN) xxiv. From 175 up to 400,175,200,300,400 xxv. Interpapillary distance, mm (MICROSCOPE): 48 to 78 xxvi. For diameter, mm (MICROSCOPE) varies with focal length xxvii. OTHER SPECIFICATIONS (AIR SUPPLY) : xxviii. Inami optics



C	<ul style="list-style-type: none"> i. Micromotor/ cable, 3.0 m, 0 to +/- 40 torque mNm ii. Speed from 4000 to 80,000 rpm with DUO-S80, iii. self ventilated, Coupling according to ISO 3964, the most widespread standard in the world iv. Dimension/Weight; Diameter 21 mm, length 100 mm, nose including ISO/ 120gm without cable v. Motor cable type push-pull side-S80 DUO, vi. Length 3m Motor Cable vii. Sterilisation in an Autoclave
D	1:1 gear ratio, extra strong release chucks system for straight shaft 70mm length burrs.
E	<ul style="list-style-type: none"> i. Cutting burrs: size (Diameter) – 8 mm, 10 mm, 18 mm, 35 mm, 40 mm Length: 7 cm ii. Diamond burrs: size (Diameter) – 8 mm, 10 mm, 18 mm, 35 mm, 40 mm Length: 7 cm

Item No.2:- SUCTION APPARATUS

Sl. no.	Description of Instruments
A	<p>PRODUCT DESCRIPTION</p> <ul style="list-style-type: none"> i. High performance 1/5 horse power pumps delivers 0-26mm Hg(0-660 mmHg) ii. Protection: dual protection system with float shut – off in the canister lid and inline Hydrophobic Filter to prevent back flow of fluid as well as airborne contaminants from entering the pump. iii. High durability: Features a protective canister bracket that holds the canister and protect the guage and adjustment knob from accidents. iv. Convenient: Features a Velco strap that allows you to wrap the power cord for improved portability. v. Extra strength premium suction feet safety and securely attach the unit to most surfaces, preventing spillage. vi. Safe: Automatic resetting thermal limit switch prevents the unit from overheating. <p>SPECIFICATION:-</p>
B	<p>Dimensions:</p> <ul style="list-style-type: none"> i. Length :13.25"(33.7 cm) ii. Width :8" (20.3 cm) iii. Height :9.75"(24.8 cm) iv. Weight: 12.6 lbs (5.7 kg) v. Shipping weight:14.5 lbs(6.6 kg) vi. Motor : 120 VAC , 60 Hz, 5 amps vii. Vaccum Range :0-26in Hg viii. Horsepower:1/5 ix. Operating temp. range:50°F to 104°F (10 to 40°C)



	<ul style="list-style-type: none"> x. Storage conditions : Temp:- -4 to 104⁰F(-20 to 40⁰ C) xi. Humidity : Max 95% non condensing
C	<p>Suction tip and rubber pipes</p> <ul style="list-style-type: none"> i. Suction handle, with cut off hole, LUER cone, length 10 cm, for use with suction tubes. ii. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 5 Fr, Length 20 cm. iii. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 7 Fr, Length 20 cm. iv. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 9 Fr, Length 20 cm. v. Suction tube, angular, LUER-lock, outer diameter 0.7mm, working length 6cm. vi. Suction tube, angular, LUER-lock, outer diameter 1mm, working length 6cm. vii. Suction tube, angular, LUER-lock, outer diameter 1.3mm, working length 6cm. viii. Suction tube, angular, LUER-lock, outer diameter 1.5mm, working length 6cm. ix. Suction tube, angular, LUER-lock, outer diameter 2mm, working length 6cm



Item no.3:- OPERATION THEATRE TABLE

Sl no	Instrument description	Qty
A	<p>Features :-</p> <ul style="list-style-type: none"> i. Electro -hydraulic operation and a sleek design ii. Surface is made of 304 stainless steel iii. Safe and reliable with simple, convenient controls iv. Automated base lock by remote control v. One button repositioning- great for X-Ray and C- arm use. vi. Seamless integration into orthopaedic environments. 	1
B	<p>Specification :-</p> <ul style="list-style-type: none"> vii. 550 lbs/250 kg weight capacity viii. Table top length/width:1970mm/500 mm ix. Table top elevation :high:880 mm low:600 mm x. Trendelenberg: reverse Trendelenberg: 30^o 30^o xi. Lateral tilt: 18^o 18^o xii. Head plate adjustment: 60^o 90^o xiii. Leg plate adjustment : down:90^o outward 90^o xiv. Back plate adjustment:+90^o - 45^o xv. Kidney bridge:4.7 inches (120 mm) xvi. Horizontal sliding:13.78 inches 	
C	<p>Accessories</p> <ul style="list-style-type: none"> xvii. Anaesthesia screen - 1 each xviii. Shoulder support - 1 each xix. Body support - 1 each xx. Arm support - 1 each xxi. Leg support - 1 each xxii. Foot plate - 1 each 	

Item no.4:- ELECTROSURGICAL CAUTERY

Sl no.	Name of instruments &description	Qty
A	<p>TECHNICAL SPECIFICATIONS</p> <ul style="list-style-type: none"> i. (110-120 V) OUTPUT WAVEFORMS <p><u>BIPOLAR</u></p> <ul style="list-style-type: none"> ii. Precise : 470 khz sinusoid iii. Standard: 470 khz sinusoid iv. Macro: 470 khz sinusoid <p><u>Monopolar cut</u></p>	1

- v. Low : 390 kHz sinusoid . Similar to Pure cut mode except the maximum voltage is limited to a lower value
- vi. Pure : 390 kHz sinusoid
- vii. Blend : 390 kHz burst of sinusoid, recurring at 27 kHz intervals.50 % duty cycle envelope

Monopolar Coag

- viii. Desiccate : 240 kHz sinusoid repeated at 39 kHz 8% duty cycle
- ix. Fulgurate : 390 kHz damped sinusoidal burst with a repetition frequency of 30 or 57 kHz into 500 ohms
- x. Spray : 390 kHz damped sinusoidal burst with a randomised repetition centred at 28 k Hz. Frequency includes 21 kHz < f < 35 kHz. Output is further modulated by a random 250 Hz envelope with a variable duty cycle.
- xi. Output power changes by less than 15 % or 5 watts, whichever is greater as the line voltage varies from 104-132 volts and 208-264 volts (at rated load).
- xii. LOW FREQUENCY LEAKAGE(50-60 Hz)
- xiii. Source current, patient leads, all outputs tied together.
- xiv. Normal polarity ,intake chassis ground : < 10 u A
- xv. Normal polarity ground open <50 u A
- xvi. Reverse polarity , ground open < 50 u A
- xvii. Sinks current 140 V applied all inputs < 50 u A PER = 98
- xviii. PER (power efficiency rating) is the measure of an electro surgical generators ability to accurately deliver the selected power into a wide range of tissue type.

Weight and dimensions

- xix. Height: 11.1 cm(4.3 / 8 inches)
- xx. Width : 35.6 cm(14 inches)
- xxi. Length: 43.9 cm (17 inches)
- xxii. Weight : <8.1 kg (< 18 lbs)

Input power requirements

- xxiii. Operating range is 85 to 132 AC Volts. maximum currents is 7 Amp in Cut and 4 amperes in Coag.
- xxiv. High frequency leakage
- xxv. Bipolar < 60 m Amp
- xxvi. Monopolar < 150 mAmp

REM contact quality monitoring system:

- xxvii. Measurement frequency: 80 kHz +/- 10 kHz
- xxviii. Measurement current <10 micro Amp
- xxix. Acceptable resistance range : REM pad -5-135 ohms
Non-REM pad-less than 24 ohms
- xxx. Acceptable range is 5-135 ohms after REM Polyhesive II return

	<p>electrode is applied.</p> <p>xxxii. Adaptive REM REM trip is baseline impedance plus 40%. For example if the baseline impedance is 30 ohms , the upper level trip is approximately 42 ohms .If the pad-patient impedance falls below baseline impedance a new baseline is established. Meets UL and Cul specifications.</p>	
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Item No.5:- MICROEAR SURGERY HAND INSTRUMENTS

Sl. No.	Instrument description	Qty
i.	WULLSTEIN forceps, serrated , length 15 cm	2
ii.	Needle Holder tungsten carbide inserts, length 13 cm	2
iii.	WULLSTEIN ear forceps ,extra delicate ,oval cupped jaws, 0.9mm , working length 8 cm	2
iv.	HARTMANN ear forceps ,round cupped jaws, diameter 2 mm , working length 8cm	2
v.	HARTMANN ear forceps ,serrated , working length 8cm	2
vi.	BELLUCI scissors ,delicate standard model, blade length 8 mm , working length 8 cm	2
vii.	Suction Handle with cut off hole ,Luer cone, length 10 cm, for use with suction tubes	2
viii.	PLESTER suction tube with grip plate, cut - off hole and stylet, Luer, 5 Fr, Length 20 cm	2
ix.	PLESTER suction tube with grip plate, cut - off hole and stylet, Luer ,7Fr, Length 20 cm	2
x.	PLESTER suction tube with grip plate, cut - off hole and stylet, Luer ,9 Fr, Length 20 cm	2
xi.	Suction tube , angular, Luer - lock , outer diameter 0.7mm, working length 6 cm	2
xii.	Suction tube , angular, Luer - lock , outer diameter 1mm, working length 6 cm	2
xiii.	Suction tube , angular, Luer - lock , outer diameter 1.3mm, working length 6 cm	2
xiv.	Suction tube , angular, Luer - lock , outer diameter 1.5mm, working length 6 cm	2



xv.	Suction tube , angular, Luer - lock , outer diameter 2mm, working length 6 cm	2
xvi.	HOUSE -DIETER Malleus Nipper, upbiting, working length 8 cm	2
xvii.	PLESTER Sickle Knife , double - edged, standard model, slightly curved , length 16 cm	2
xviii.	FISCH Ear forceps ,extra delicate, pointed, serrated, 1 x4.5 mm, working length 8 cm	2
xix.	Seeker , ball end angled 45 degree, 15.5 cm , size 3.	2
xx.	BUCK Ear curette , sharp , size 00,length 14.5cm	2
xxi.	BUCK Ear curette , sharp , size 0,length 14.5cm	2
xxii.	HOUSE Curette ,large ,spoon size 2 x3.2mm and 1.6x 2.6mm, length 15 cm	2
xxiii.	HOUSE Curette ,small ,spoon size 1x1.6mm and 1.3x 2mm, length 15 cm	2
xxiv.	PLESTER Footplate Hook,0.6mm, length 16 cm	2
xxv.	FISCH Manual perforator , diameter 0.3mm length-16 cm	2
xxvi.	Footplate Hook,0.2mm, length 16 cm	2
xxvii.	Round Knife 45degree, D-2mm, L-16cm	2
xxviii.	PLESTER Knife , round, vertical,16 cm, standard size 3.5mm x 2.5 mm	2
xxix.	Pick , 90 degree , size 1 mm , Length16 cm	2
xxx.	Pick , 90 degree , size 0.8mm , Length16 cm	2
xxxi.	Pick , 90 degree , size 0.6 mm , Length16 cm	2
xxxii.	Pick , 90 degree , size 0.4mm , Length16 cm	2
xxxiii.	Tungsten Carbide shaft burrs, stainless, size 006-070, length 7 cm, set of 15	2
xxxiv.	Diamond straight burrs, stainless, size 006-070, length 7 cm, set of 15	2
xxxv.	Standard straight shaft burrs ,oblong ,70 mm length, O.D: 6 mm	2
xxxvi.	Brush, for cleaning a traumatic jaws, sterilisable, package of 5	2

Item No.6:- INSTRUMENTS FOR ENDOSCOPIC SINUS SURGERY (FESS)

Sl. No.	Name of Instruments with Specifications	Qty
i.	HD Endovision TRICAM , digital three-chip video camera, color system PAL, with integrated Parfocal Zoom Lens, f= 14mm-28mm,(2×); with 2 freely programmable buttons, camera head autoclavable, including sterilisation tray.	1
ii.	Cold Light Fountain XENON Nova 300 with built-in anti-fog air-pump, and integrated Communication Bus System power supply: 100-125 VAC/220-240 VAC, 50/60 Hz. Including: 400 A Mains cord, AFT Silicone Tubing Set, autoclavable, length 250 cm, Connecting Cord, length 100cm.	2
iii.	Spare Lamp Module XENON with heat sink, 300 watt, 15 volt XENON Spare lamp, 300 watt, 15 volt	1
iv.	15" Flat Screen monitor , wall-mounted with VEAS 100 mounting, color systems PAL/NTSC, resolution max. 1024× 768, video inputs: (XGA), SDI, Composite, S-Video, RGBS/VGA, brightness 430cd/m ² , contrast 500:1, power supply 100-240 VAC, 50/60 Hz consisting of: 15" LED Flat Screen External 24VDC Power Supply Mains cord BNC/BNC Video Cable, length 240 cm S-Video (Y/C) Connecting Cable, length 360 cm SVGA Connecting Cable, length 200 cm	1
v.	Mobile Videocart , including of: Basic Mobile Cart, rides on 4 antistatic double-casters, 2 equipped with locking brakes, 1 shelf fixed, 1 shelf with mains switch, 1 shelf inclinable, 1 drawer unit with lock, 1 push bar, with large lumen cable channels integrated in both columns, 1 set of non-sliding stands, 1 camera mount Power Box with electrical supply terminal strip with 12 plugs, 12 equipotential plugs	1



Item No7:- Telescopes

Sl. no	Instrument description	Qty
i.	Hopkins II wide angle straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, autoclave, fiber optic light transmission incorporated, color green	2
ii.	Hopkins II wide angle forward – oblique Telescope 30°, enlarged view, diameter 4mm, length 18 cm, autoclave, fiber optic light transmission incorporated. Color code : yellow	2
iii.	Hopkins II wide angle lateral Telescope 70°, enlarged view, diameter 4mm, length 18 cm, autoclave, fiber optic light transmission incorporated.	2
iv.	Hopkins II wide angle lateral laryngeal Telescope 90°, enlarged view, diameter 10mm x 13mm, length 18 cm, autoclave, fiber optic light transmission incorporated.	2
v.	Hopkins II wide angle straight forward telescope 0°, enlarged view, diameter 2.7mm, autoclave, fiber optic light transmission incorporated.	1
vi.	Hopkins II wide angle Telescope 45°, enlarged view, diameter 2.7mm, autoclave, fiber-optic light transmission incorporated.	1

Item No.8:- MICRODEBRIDER SET

i.	Unidrive ECO set, motor control unit with 2 motor connectors and integrated irrigation pump, power supply: 100-120/230-240 VAC, 50/60 Hz consists of: Unidrive ECO 400A power cord silicone tubing set sterilizable clip set, sterilizable double pedal footswitch	1
ii.	Stamberger – Castlenuvo Drill cut X shaver handpiece, for use with unidrive ECO/ENT/NEURO/OMFS	1
iii.	Suction shaver blade with integrated irrigation for Drill Cut-X handpiece straight, sterilizable, double, serrated cutting edge, rectangular cutting window, diameter 4 mm, length 12 cm	1
iv.	Suction shaver blade with integrated irrigation for Drill Cut-X handpiece straight, sterilizable, double, concave cutting edge, oval cutting window, diameter 4 mm, length 12 cm colour code: blue green, for use with Drill- X handpiece	1
v.	Shaver blade with integrated irrigation for Drill Cut-X handpiece curved 65 degree, sterilizable, cutting edged serrated forwards, double serrated, rectangular cutting window, diameter 4 mm, length 12 cm colour code: blue yellow, for use with Drill- X handpieces	1
vi.	Suction shaver blade with integrated irrigation for Drill Cut-X handpiece curved 40 degree, sterilizable, cutting edged serrated backwards, double serrated, rectangular cutting window, diameter 4 mm, length 12 cm colour code: blue yellow, for use with Drill- X handpieces	1



Item No.9:- HAND INSTRUMENTS FOR FESS

i.	BLAKESLEY RHINOFORCE II Nasal Forceps , straight, size 1 with cleaning connector, working length 13 cm	2
ii.	BLAKESLEY RHINOFORCE II Nasal Forceps, 45 degree upturned, size 1 with cleaning connector, working length 13 cm	2
iii.	BLAKESLEY RHINOFORCE II Nasal Forceps ,90 degree ,upturned, size 1 ,with cleaning connector, working length 13 cm	2
iv.	RHINOFORCE II Nasal scissors , straight, with cleaning connector, working length 13 cm	2
v.	EICKEN Antrum cannula , length 12.5cm, with cut-off hole ,0.D. 3 mm , LUER- lock, short curved	2
vi.	EICKEN Antrum cannula , length 12.5cm, with cut-off hole ,0.D. 3 mm , LUER- lock, 0.D. 4 mm	2
vii.	STAMMBERGER Antrum Punch left side downward and forward cutting, with cleaning connector , working length 10 cm	2
viii.	STAMMBERGER Antrum Punch Right side downward and forward cutting, with cleaning connector , working length 10 cm	2
ix.	STAMMBERGER RHINOFORCE II Antrum Punch left side backward cutting, with cleaning connector , working length 10 cm	2
x.	STAMMBERGER RHINOFORCE II Antrum Punch Right side backward cutting, with cleaning connector , working length 10 cm	2
xi.	EICKEN Antrum cannula , LUER- lock, short curved,12.5cm x 2.5mm-2	2
xii.	EICKEN Antrum cannula , LUER- lock, long curved,12.5cm x 2.5mm-2	2
xiii.	Hartman ' s nasal cutting forceps, round size 3	2
xiv.	Fry nasal cutting forceps ,60 degree upturned	2
xv.	Ostrum 360 degree Rotating Punch, adult size 10 cm	2
xvi.	Ostrum 360 degree Rotating Punch, pediatric size 9 cm	2
xvii.	Freiburg Suction Tube with cut -off hole and stylet, ball shaped end, angled, working length 11cm x 3 mm	2
xviii.	Freiburg Suction Tube with cut -off hole and stylet, ball shaped end, angled, working length 11cm x 2.5 mm	2
xix.	Frazier Suction Tube with cut -off hole and stylet, angled, working length 10cm, outer diameter 1.5mm	5

Item No.10:- INSTRUMENTS FOR MICROLARYNGEAL SURGERY

SI. no.	Instrument description	Qty
i.	KLEINSASSER Operating Laryngoscope, for adults, medium length 18 cm (for anterior commissure)	2
ii.	KLEINSASSER Operating Laryngoscope, length 18cm, small (for difficult anatomical circumstances).	2
iii.	KLEINSASSER Operating Laryngoscope, for adults, medium, length 17 cm (most commonly used model)	2
iv.	Fiber Optic Light Carrier, for distal illumination, working length 14cm, for use With Laryngoscopes.	1
i.	Insertable Suction Tube, for use with laryngoscopes	2
ii.	KLEINSASSER Grasping Forceps, without ratchet, serrated, with triangular jaws, curved upwards to right, with cleaning connector, workin g length 23 cm	2
iii.	KLEINSASSER Grasping Forceps, without ratchet, serrated, with triangula r jaws, curved upwards to left, with cleaning connector, working length 23 cm	2
iv.	Grasping Forceps, straight, serrated, sheath insulated, with cleaning conn ector, working length 23 cm	2
v.	LARYNGOFORCE II Scissors for Large Tumors, straight, robust model, cutting blade 10 mm, sheath diameter 3 mm. with cleaning connector, working length 23 cm	2
vi.	KLEINSASSER Miniature Scissors, straight, with cleaning connector, working length 23 cm	2
vii.	Micro Grasping Forceps, curved upwards to right, serrated, with triangula r fenestrated jaws, with cleaning connector, working length 18 cm	2
viii.	Micro Grasping Forceps, curved upwards to left, serrated, with triangular fenestrated jaws, with cleaning connector, working length 18 cm	2
ix.	LINDHOLM Forceps, for atraumatic retraction of true vocal cords and fals e vocal cords, distal end with blunt curved blades, self retaining with ratchet and cleaning connector, working length 24cm	2
x.	KLEINSASSER Knife sickle-shaped, curved, pointed, working length 23 cm	2
xi.	KLEINSASSER Handle,	2
xii.	KLEINSASSER Knife, round, cuts vertically, working length 23 cm	2
xiii.	KLEINSASSER Injection Needle LUER- Lock, straight, working length 23 cm	2

xiv.	KLEINSASSER Suction and Coagulation Cannula, outer diameter 3 mm, working length 26 cm, for use with unipolar High Frequency Cords	2
xv.	Laryngoscope Holder GOETTINGEN Model, with wide angle adjustment consisting of: holder with wheel support rod	1
xvi.	KLEINSASSER Forceps, straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm	2
xvii.	KLEINSASSER Forceps curved to right, with 2 mm cupped jaws. with cleaning connector, working length 23 cm	2
xviii.	KLEINSASSER Forceps, curved to left, with 2 mm cupped jaws, with cleaning connector, working length 23 cm	2
xix.	KLEINSASSER Scissors, straight, with cleaning connector, working length 23 cm	2
xx.	KLEINSASSER Scissors, curved to right, with cleaning connector, working length 23 cm	2
xxi.	KLEINSASSER Scissors, curved to left with cleaning connector, working length 23 cm	2
xxii.	BENJAMIN-HAVAS Clip, short, for proximal illumination	2
xxiii.	RUDERT Anterio Commissure Laryngoscope, triangle shaped, with right and left side channels for use with fiber optic light Carrier or suction tube for evacuation of vapor , length 17cm. medium, universal size, (most commonly used laryngoscope)	2
xxiv.	Fiber Optic Light Carrier, for use with laryngoscopes , length 16 cm.	2
xxv.	Insertable Suction Tube to remove vapor, for use with laryngoscopes length 16 cm.	2
xxvi.	KLEINSASSER Artery Forceps, with ratchet, with cleaning connector, working length 23 cm	2
xxvii.	Sickle Knife, curved, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxviii.	Sickle Knife, straight cutting, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxix.	Round Knife, vertical cutting, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxx.	Lancet Knife, straight, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxxi.	Needle, straight, sharp, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxxii.	Hook, 90°, 1 mm, sharp, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxxiii.	Hook, 90°, 2 mm, sharp, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2

xxxiv.	Dissector, straight. 1.3 mm ball end, delicate. 3 mm to 0.6 mm tapered shaft, total length 23 cm	2
xxxv.	Elevator, slightly curved, blunt delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxxvi.	Curette, oval spoon, straight, delicate, 3 mm to 1 mm tapered shaft, total length 23 cm	2
xxxvii.	Curette, oval spoon, angled 35°, delicate. 3 mm to 1 mm, tapered shaft, total length 23 cm	2
xxxviii.	Suction Elevator, angular, with grip plate and cut-off hole. LUER, distal elevator blade curved to left delicate, tapered sheath, Working length 21 cm, total length 23 cm	2
xxxix.	Suction Elevator, angular, with grip plate and cut-off hole, LUER, distal elevator blade curved to right, delicate, tapered sheath, working length 21 cm, total length 23 cm	2
xl.	KLEINSASSER Hook, blunt, angled 90°, with probe end, length 5mm, working length 23 cm	2
xli.	KLEINSASSER Knife oval, straight, working length 23 cm	2
xlii.	Unipolar High Frequency Cord, with 5 mm plug for HF unit, system and length 300 cm	2
xliii.	Teeth Protector, silicon, autoclavable	2
xliv.	Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, Bipolar High Frequency Cords	2
xlv.	Bipolar High Frequency cord, for coagulator, types, and Erbecoagulator T and ICC series, with two 2 mm cable sockets bipolar coagulating forceps, length 450cm	2

Item no. 11:- ADULT RIGID OESOPHAGOSCOPE

Sl. No.	Instrument description	Qty
i.	HOPKINS Straight Forward Telescope 0-degree, diameter 5.5 mm, length 53 cm, autoclavable. Fiber optic light transmission incorporated. Colour code: green	1
ii.	Esophagoscope Tube, size 11, outer diameter 12 mm, for use with fibreoptic light transmission, working length 50 cm	1
iii.	Esophagoscope Tube, size 12 outer diameter 13 mm, for use with fibreoptic light transmission, working length 50 cm	1
iv.	Tube-insert, with instrument channel and anti-fog-device, for use with oesophagoscope tube and straight forward telescope.	1
v.	Tube-insert, with injection needle and cap for use with oesophagoscope tube and straight forward telescope	1
vi.	Optical forceps, for peanuts, big and soft foreign bodies, double-action jaws, working length 55 cm.	1
vii.	Optical forceps, with round cupped jaws, for biopsy, double action jaws, cupped diameter 4.3 mm, working length 55 cm.	1
viii.	Optical forceps, alligator, for hard foreign bodies with large jaws, double-action jaws, working length 55 cm.	1
ix.	Optical forceps, universal, for biopsy, removal foreign bodies and denatured tissue, double-action jaws, working length 55 cm.	1
X	Plug with rubber seal,	1
xi.	Forceps, flexible, for biopsy, single-action jaws, jaw width 3.2 mm, working length 61 cm	1
xii.	Injection needle, flexible	1
xiii.	Suction catheter, 9 Fr., length 60 cm, with adaptor	1
xiv.	Coagulation Cannula for suction, flexible, insulated, outer diameter 3 mm, working length 68 cm	1
xv.	Rubber insufflation bulb, with LUER-lock connector, consisting of: B Rubber bulb, Rubber tube	1

Item No.12:- PEDIATRIC RIGID OESOPHAGOSCOPE

Sl. No.	Instrument description	Qty
i.	Esophagoscope Tube, length 30 cm, size 6	1
ii.	Esophagoscope Tube, length 30 cm, size 5	1
iii.	Esophagoscope Tube, size 4, outer diameter 6.7 mm, inner diameter 6.2 mm, length 30 cm	1
iv.	Esophagoscope Tube, length 18,5 cm, size 3.5	1
v.	Esophagoscope Tube, length 18,5 cm, size 3	1
vi.	Prismatic Light Deflector, autoclavable, with connection for fiber optic light cable	1
vii.	Rubber Telescope Guide for use with telescopes or optical forceps	1
viii.	Adjustable Magnifier, swing-away type, with ring adaption, autoclavable	1
ix.	HOPKINS Straight Forward Tele- scope 0°, diameter 2.9 mm, working length 36 cm, auto-clavable. Fiber optic light transmission incorporated. Color code: green	1
x.	Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2 x 2 teeth, for use with telescope, forced controlled handle for removal of coins and flat foreign bodies	1
xi.	Optical Forceps, with spring- action handle for controlled removal of peanuts and soft foreign bodies, for use with Telescope	1
xii.	Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes, for use with telescope, forced controlled handle for removal of hard foreign bodies	1
xiii.	Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm	1
xiv.	Forceps alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm	1
xv.	Forceps, universal, for biopsy and foreign bodies, double action jaws, sheath diameter: 1.5 mm, working length 35 cm	1
xvi.	Forceps, whit round cupped cupped jaws, for biopsy, double-action jaws, cupped diameter 3 mm, sheath diameter 1.5 mm, working length 35 cm	1
xvii.	Rigid Suction Tube, with rubber tip, straight, outer diameter 02 mm, working length 35 cm	1
xviii.	Cotton Carrier, working length 35 cm	1

Item no.13:- ADULT RIGID BRONCHOSCOPE SET

Sl. no.	Instrument description	Qty
i.	HOPKINS Straight Forward Telescope 0°, diameter 4.5mm length 50 cm, autoclavable. Fiber optic light transmission incorporated, color code: green.	2
ii.	Bronchoscope Tube Universal, without distal fiber optic light carrier, size 8.5, outer diameter 11.2 mm, inner diameter 10.5 mm, length 43 cm, for use with proximally insertable Prismatic Light Deflector, Plugs and FLUVOG Adaptor	2
iii.	Bronchoscope Tube Universal, without distal fiber optic light carrier, size 7.5, outer diameter 10.2 mm, inner diameter 9.5 mm, length 43 cm, for use with proximally insertable Prismatic Light Deflector, Plugs and FLUVOG Adaptor	2
iv	Bronchoscope Tube Universal, without distal fiber optical light carrier, size 6.5, outer diameter 9.2 mm, inner diameter 8.5 mm, length 43 cm, for use with proximally insertable Prismatic Light Deflector, Plugs and FLUVOG Adaptor.	2
v.	Prismatic Light Deflector, autoclavable, with connection for fiber optic light cable.	2
vi.	Sealing Cap with window for use with: Bronchoscopes and Tracheoscopes	2
vii.	Sealing Cap with rubber seal for use with: Bronchoscopes and Tracheoscopes.	2
viii.	FLUVOG Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable, for use with Full Lumen Tracheoscopes and Bronchoscopes.	2
ix.	Injection Cannula, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm, for use with Bronchoscope.	2
x.	Tube Guide, for Bronchoscope.	2
xi.	Adaptor, for respirator.	2
xii.	Plug for Ventilation Attachment of Bronchoscopes.	2
xiii.	Forceps, alligator, for hard foreign bodies, double-action jaws, sheath diameter 2.5 mm, working length 50 cm.	2
xiv.	Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws, sheath diameter 2.5 mm, working length 50 cm.	2
xv.	Forceps, for peanuts and soft foreign bodies, double-action jaws, jaw width 7 mm, sheath diameter 2.5 mm, working length 50 cm.	2
xvi.	Forceps, with round cupped jaws, for biopsy, jaw diameter 5 mm, double-	2

	action jaws, sheath diameter 2.5 mm, working length 50 cm.	
Xvii.	Forceps, with round cupped jaws, for biopsy, malleable, jaw diameter 4 mm, double-action jaws, sheath diameter 2.5 mm, working length 50 cm.	2
xviii.	Forceps, with oval cupped jaws, fenestrated, for biopsy and foreign bodies, double-action jaws, jaw width 5 mm, sheath diameter 2.5 mm, working length 50 cm.	2
xix.	Forceps with cupped jaws, retrograde, for biopsy, double-action jaws, jaw width 6.5 mm, sheath diameter 2.5 mm, working length 50 cm.	2
xx.	Forceps, universal, for biopsy and foreign bodies, double action jaw jaw width 4 mm, sheath diameter 2.5 mm, working length 50 cm.	2
xxi.	HUZLY Tampon Applicator, double-action jaws sheath diameter 2.5 mm, working length 50 cm.	2
xxii.	Suction tube for bronchoscopy O.D 2.5 mm working length 50 cm.	2

Item no.14:- RIGID PAEDIATRIC BRONCHOSCOPE SET

Sl. no.	Instrument description	Qty
i.	HOPKINS Straight Forward Telescope 0°, diameter 2.9 mm working length 36 cm, auto-clavable. Fiber optic light transmission incorporated. Color code: green.	2
ii.	DOESEL-HUZLY Bronchoscope, length 30 cm, size 6.	2
iii.	DOESEL-HUZLY Bronchoscope, length 30 cm, size 4.5	2
iv.	DOESEL-HUZLY Bronchoscope, length 30 cm, size 3.5	2
v.	DOESEL-HUZLY Bronchoscope, length 26 cm, size 3	2
vi.	Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes, for use with telescope, forced controlled handle for removal of hard foreign bodies.	2
vii.	Optical Forceps, with spring-action handle for controlled removal of peanuts and soft foreign bodies, for use with Telescope.	2
viii.	Optical Forceps, for use with HOPKINS telescope, for biopsy	2
ix.	Optical Pediatric Scissors, for use with telescope and Broncho-Esophagoscopes, length 30, 26 and 20 cm, sizes 6-3.5	2
x.	Optical Forceps for use with telescope, Universal, biopsy and grasping	2

xi.	Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2x2 teeth, for use with telescope, forced controlled handle for removal of coins and flat foreign bodies	2
xii.	Rubber Telescope Guide for use with telescopes or optical forceps	2
xiii.	FLUVOG Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, moveable.	2
xiv.	Guiding Piece, short, for suction catheter for children and suckling bronchoscope	2
xv.	Adaptor, for respirator	2
xvi.	Plug for Ventilation Attachment of Bronchoscopes	2
xvii.	Injection Cannula for positive pressure assisted ventilation system, O.D. 2.7 mm, for use with bronchoscopes and tracheoscopes, with LUR-lock female fitting	2
xviii.	STRUNZ Optical Suction Tube, outer diameter 2.5 mm for use with HOPKINS Straight Forward Telescope and Bronchoscope.	2

Item no.15:- Microear Instruments for Cochlear Implant Surgery

Sl. no.	Instrument description	Qty
i	Micro aural forceps upwards	2
ii	Micro aural forceps serrated 2 mm micro pipe straight	2
iii	Wullstein needle straight	2
iv	Wullstein needle slightly curved	2
v	Micro aural cup forceps straight	2
vi	Micro aural cup forceps upwards	2
Vii	Micro aural cup forceps 2mm micro pipe straight	2
Viii	Micro aural polypus forceps	2
Ix	Micro aural scissors fine straight	2
X	Micro aural scissors fine upwards	2
Xi	Mastoid suction tube no.1,2,3,4	2 each
Xii	Vorhoven suction tube no.12,14,16,18	2 each

Xiii	Vorhoven suction tube holder	2
Xiv	Plesters first incision knife	2
Xv	Sickle knife	2
Xvi	Circular cutting knife 60 degree	2
Xvii	Circular cutting knife 90 degree	2
Xviii	Micro aural curette straight	2
Xix	Fenestra hook straight 90 degree angle	2
Xx	Rosen elevator for lifting drum	2
Xxi	Wullstein straight needle sharp and blunt	2
Xxii	Rosen curette	2
Xxiii	Rosen curette curved straight shaft	2
Xxiv	Lake seeker	2
Xxv	Grommet holding forceps	2
Xxvi	Grommet tube inserter	1
Xxvii	House Deiter malleus punch forcep	2
Xxviii	House Deiter malleus nippers	2
Xxix	Tukkey aural forceps	2
Xxx	Lempert mastoid curette	2
Xxxi	Farabeuf elevator curved	2
Xxxii	Micro aural polypus forceps	2
Xxxiii	Beales Raspatory	2
Xxxiv	Myringotomy knife	1
Xxxv	House curette double ended	2
Xxxvi	Hartman aural forceps, assorted sizes	2 each
Xxxvii	Jansen chisel	2
xxxviii	Hansen Osteotome	2
Xxxix	Jenkins gouge	2
Xl	Houses graft press forceps	2
Xli	Hartman ear speculum (set of 4)	1

Xlii	Aural speculum shea	2
Xliii	Micro pick 45 degree angled	2
Xliv	Micro pick 90 degree angled.	2



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