

Department Of ENT

Sr. No.	Item Name	Specification	Qty	Suggested Manufacturers Name	Approx. Unit cost	Usage
1	Operating microscope with viewing tube & Endo camera with monitor	Operating microscope with viewing tube &. Endo camera with monitor Zoom, motorized with foot control objective lenses 200, 300, 400 with side tube and camera (CCTV) with monitor with video recording facility.	2	*Carl zeiss, *Olympus *BEL	4000000/-	the magnification provided by the operating microscope improves visualisation of the <u>anatomy</u> present leading to better outcomes for the patient and reduces complication
2	Stroboscope Laryngostrobe Set	Stroboscope for larynx examination ,with built in antifog –air pump ,power supply : 100/ 120/127/220/230 VAC, 50/60 Hz Specifications: Slow –motion mode strobe frequency : 0.5- 2 Hz.Phase position: 0-400 hz, overlapping strobe phasing adjustment range Operation mode : continuous (cold light),still picture ,slow motion (stroboscope).Microphone:high sensitivity Dimensions :470 mm × 135 mm × 410 mm Consist of: Mains cord Laryngostrobe Footswitch High sensitivity microphone Laryngoscope holder Silicon tubing set	2	*Phacon, *NOVAPLUS	500000/-	used to view the <u>vocal cords</u> for diagnosis of conditions that have produced <u>dysphonia</u> (hoarseness) resulting in better treatment of patient.
3	Micro drill:	Surgical micro motor/ drill 50,000 rpm foot and hand control with different special department bur	02 set	*Marathon	150000	For removal of disease

		<p>bits.</p> <p>Straight Hand piece: Straight hand piece with quick toll clamping type of shank @ 2/35, L 70 mm (Two In Number)</p> <p>Contra Angle: Contra angle with quick tool clamping type of shank @ 2.35 mm, L 70 mm.</p> <p>Burrs: Cutting 0 to 5 number -one each Polishing 0 to 5 number - one each Diamond 0 to 5number- one each</p>		<p>*Medtronics</p> <p>*Xomed</p>		<p>pathology with less complication and better outcome</p>
4	Diode laser	<p>Specifications of LA-SC-7S0 Wavelength (nm) 780nm Diode Power (mW):5/20 Operation Voltage:3~5v Beam Diameter:3mm Beam Divergence: < 0.5mrd Operating Current at 25Deg C <50mA Collimating lens: Aspheric plastic lens Case material: Brass MTIF (Mean Time To Failure)2000 hrs. of operation Specifications of Laser Diode Module of 30mW 830nm Modulation Frequency 100 KHz Modulation Level 100% (signal on) & 20% (off) of optic output power Max. Optical Output power ~ 70% of max. diode power (w/o front cover, 7mm aperture) Wavelength (nm) 830nm Diode Power (mW)30mW Operation Voltage:5V/12V Operation Temperature -10 +/- 40/50/60/70°C Beam Diameter 7mm (w/o front. cover), 4mm (w/front cover) Beam Divergence <0.8mrd Bore Sighting <15mrd Operating Current at 25°C <50mA; Collimating lens 3-element glass lens Case Material: Black. Anodized (Aluminum) Life time:2000 hrs. of operation</p>	1	<p>*Northrop</p> <p>*Nichia</p>	300000	<p>For minimal invasive surgery resulting in better compliance of patients</p>

5	Xenon Cold Light Fountain	<p>– Tungsten XENON nova, with 175 watt XENON lamp and one light outlet power Supply : 100-125/220-240VAC, 50/60 Hz consisting of XENON nova 400 Mains Cord Headlight with internal fiber optic light cable fully adjustable - Headlight, light model illuminated area 65 mm in diameter with 46 cm working distance; with thin integral fiber optic light cable, diameter 2.5 mm, with fully adjustable, comfortable headband - Headlight adjustable in 3 dimensions vertical adjustment at the headband, front part Rotatable through 45° to the left and to the right and 165° downward - Self retaining in any position no deviation from desired position</p>	2	<p>*Novaplus, *Phacon *Storz *Wolfs Eagle</p>	300000	Better visualization of operating area means better outcome of patients surgery.
6	Temporal bone dissection unit	Temporal bone dissection unit with microscope with monitor with drainage, suction apparatus	6	<p>*Phacon *Novaplus</p>	3500000	Prior practice on artificial surgical field increase precision of surgery in patients
7	Heavy duty LED operating light	<p>Heavy duty LED operating light for ENT OT similar make major + minor (OT). Specially designed for providing cool & high intensity light colour- correcting heat & high intensity. Light colour- correcting heat radiation in the field. High performance special halogen light sterilizable handle provided for positioning of lamp possibility of wide range of radial, Angular & axial smooth movements. Technical specification Type of lamp ceiling with twin domes seven+four reflector Dome 1 dome 2 Dome Size 712mm approx 557mm approx LUX intensity</p>	2	<p>*Olympus , *Drager</p>	250000	Better visualization of operating field increase precision and reduces complications resulting in better outcome

		80,000 LUX+-10% 50,000 LUX Temp. 4300+-10%K4300+-10%K Temp. Inc.2°C+-to 4°C ambient Light field diameter 15-20cm Halogen bulb 24 W Power supply 220 V Ac, 50/60Hz 220V AC 50/60 Hz				
8	BERA Unit	BERA Unit Should have following test types: - AEP, Chirp ABR, Cortical AEP, ECochG, AMLR, LLR, Electrical ABR for pre surgical &Post surgical Cochlear Implant procedure, VEMP Should have facility of display multiple panels of waveforms simultaneously. Should have facility of continuous live display of ongoing input signals. Should have facility of unlimited number of user- defined test protocols. Should have facility of User-definable marker. It should have following stimulus types: CE- Chirp, Click, tone burst, tone pip. Should have stimulus polarity: Condensation,Rarefaction, Alternating Should have intensity 0 to 130 dB SPL. Should have repetition rates 0.2 to 100 depending on modality. Should be amplifier frequency response 0.2 to10,000 Hz. Should have absolute or stimulus relative masking types. Should have two isolated channels. Should have digital Butterworth Highpass/ Lowpass Filter, Should be input impedance greater than 1000 MW	1	*MarvelCare *Medtronics	500000	Only by this device hearing assessment in child can be done before any surgical management like cochlear implant

		<p>Should have built in impedance tester All accessories for all above facilities to be included. Should be CE certified & ISO certified manufacturing. (Attach Certificate). Should be supplied with following accessories:</p> <ol style="list-style-type: none"> 1. Insert Earphone 01 no. 2. Electrodes 6mm cup 12 nos. 3. Electrodes 10 mm cup 12 nos. 4. Electrode linker 02 nos. 5. Skin preparation gel 01 no. 6. Conductive paste 01 no. 7. Infant ear tips 3.5 mm 20 nos, 8. Infant ear tips 4.0mm 20 nos. 9. Foam eartips, 10mm 100 nos. 10. Disposable Electrodes 25 nos. 11. Foam eartips, 13mm 100 nos. 12. User Manual 01 no. <p>Should be supplied with Laptop (Intel core 2 Duo, 4 GB RAM, 160 GB Hard disk, DVD writer with windows 7 operating, system), Color laser printer.</p>				
9	OAE:	<p>Test type: - DPOAE, TEOAE Test Should have wireless data transmission facility to laptop by Infrared / Bluetooth technology. Should be also stand alone unit & have storage facility more than 300 patients. Should be battery (NIMH) operated with operating life 24 hours. Should have frequency range up to 6000 Hz for</p>	1	<p>*Madsen *SONIC *Aurical Co.</p>	300000	To test inner ear functional status

		<p>DPOAE. Should have frequency range up to 5000 Hz for TEOAE. Frequency Intensity Range : 45 to 70 dB SPL System must have programmable test frequency. Result should display- Pass, Refer, Noise or graphical. Should have automatic operations for screening & calibration of probe. Should have the facility of set the environment. Should have data management software for interface with PC. r Should have low battery, dead battery, database error, internal circuit error alarm. Should be CE certified & ISO certified manufacturing.(Attach certificate) Should supply with following accessories: -</p> <ol style="list-style-type: none"> 1. Probe Infrared or blue tooth PC adaptor USB port User Manual Database Management Software 5. Infant Ear tips Kit, 25 each (3.5,4,5,6,7mm) - 01 box 6. Child/Adult Ear tips kit, 25 each (7,8,9,1.0,11 mm) 				
10	Bipolar RFA for ablation in ENT region with auto stop function	<p>Bipolar RFA for ablation in ENT region with auto stop function.</p> <p>Specification of Radio Frequency Induced Thermotherapy Units (ENT)</p> <p>Should be based on the principle of Radiofrequency induced Thermotherapy for minimal invasive</p>	1	*Faith biotech *Arthocare	300000	For minimal invasive surgeries reduces complication and increase precision

	<p>surgeries. Should be interstitial form of therapy which can be performed under local anaesthesia. Surface of the organ should remain intact. Current should be induced through bipolar applicators. Should not need any neutral electrodes. Tissue should be heated over 60 deg. C. Should provide a rapid procedure. Should have constant real-time monitoring of the coagulation process Should provide end-of-procedure signal. Should have automated power control to exclude overdosing. Should have footswitch control. Should be a compact unit and should be supplied with different applicators and probes. Should be certified acc. to CE and IEC601.10 safety standards.</p> <p>Consumables</p> <p>Probes for treatment of Habitual snoring & Hyperplastic palatine tonsils in adults and children with conical tip & 1.3mm dia</p> <p>Probes for treatment of mild obstructive sleep apnea with trocar tip & 1.3mm dia</p> <p>Probes for treatment of Hyperplasia of the nasal concha, Habitual snoring (combined treatment) and Mild obstructive sleep apnea (combined treatment) with conical tip & 1.1 mm dia</p> <p>Probes for treatment of Nasal polyps, especially recurrent polyps with conical tip and</p>				
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		<p>1.3mm dia</p> <p>Angled and bayonet Forceps with cables for tissue and vessel coagulation to stop bleeding in ENT and surgery. Should use Bipolar RFITT for the cutting system Should not require any neutral electrode Should have the power setting of 1-25Watts Should be compatible with cutting electrodes of 0.2mm dia& 10mm length Should be supplied with Surgical Forceps Electrodes, Cutting Electrode Grip & connecting cables</p> <p>Consumables Cutting Electrodes</p>				
11	Electronystagmography (ENG) Machine	<p>MODEL :- 4 Channels</p> <p>SYSTEM CAPABILITIES :-</p> <ul style="list-style-type: none"> . Input channels : 4 . Low filter : 1,2 or 4 seconds . High filter : 7.5/ 15/ 30 Hz . Coupling : DC <p>Response</p> <ul style="list-style-type: none"> . Input offset voltage . Range : + 16mV . CMMR : > 14 dB . Noise : < 5microV peak to peak max with input shorted . Notch filter : 50/60 Hz 	1	*Phacon *Novaplus	200000	Used in cases of ear induced vertigo diagnosis and dizziness

	<ul style="list-style-type: none"> . Resolution(ADC) : 14 bit . Sampling rate : 500 Hz . Sweep speed : 5/10/20 mm/sec . Range of eye position tracked: + 30 degree horizontal and vertical . Linearity <ul style="list-style-type: none"> . Horizontal : 1% full scale . Vertical : 1.2% full scale . Input power : 120/240 VAC , 50/60 Hz <p>OPTICAL STIMULUS :-</p> <ul style="list-style-type: none"> . Type : Light bar . Patient to bar distance : 1 metre . Target position : Gaze targets + 30 degrees . Pursuits and saccades : computer controlled . Target size : < ½ degree . Optokinetic : 6 targets <p>ELECTRODES :-</p> <ul style="list-style-type: none"> . Type : Ag/Ag Cl Disc electrodes <p>MINIMUM COMPUTER CONFIGURATION :-</p> <ul style="list-style-type: none"> CPU : PC IBM Compatible with P-IV, 512 MB , . 80 GB HDD, 1 SL, 1 				
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		parallel, 4 USB Port. Monitor : 15 inch colour Operating system : Windows Vista Printer : Windows compatible Inkjet/Laser jet				
12	Electrocochleography Machine		1	*Phacon *Novaplus	200000	Used in hearing loss with dizziness patients assessment
13	BRONCHOSCOPE PAEDIATRIC BRONCHOSCOPE ADULT	<p>Bronchoscope set (Pediatric & adult) Complete set with all accessories including forceps Bronchoscope, length 30 cm, Size 6 Bronchoscope, length 30 cm, Size 5.5 Bronchoscope, length 30 cm, Size 5 Bronchoscope, length 30 cm, Size 4.5 Bronchoscope, length 30 cm, Size 4 Bronchoscope, length 30 cm, Size 3.5 Bronchoscope, length 30 cm, Size 3 Bronchoscope, length 30 cm, Size 2.5</p> <p>bronchoscope Tube Universal, with fiber optic light carrier, length 43cm, size 8.5 Bronchoscope Tube Universal, with fiber optic light carrier, Length 43 Cm, size 6.5</p> <p>Accessories for bronchoscopy a. Prismatic light deflector with connection for fibreoptic cable light carrier. b. Glass window plug c. Instrument guide for aspiration catheter d. Adaptor to respirator e. Sealing plug for respirator connection</p>	1	*Storz *Kalellkar *Medtronics	150000	Used in emergency management of foreign body of airway

	<p>f. Rigid suction tube 50 cm length x2.0 mm dia, 35 cm length x2.0 mm dia ,25 cm length x2.0 mm dia</p> <p>Bronchoscopic forceps</p> <p>(a) Peanut grasping 55cm length x2.5mm diameter</p> <p>(b) Crocodile Alligator Forceps – Straight , Lt &Rt</p> <p>(c)Circular cup biopsy Forceps :- Standard 35 cm length x2.5mm diameter</p> <p>(d) Alligator grasping 45 cm length x2.0 mm dia</p> <p>(e) Rotating sharp pointed peanut grasping (f) circular cup biopsy fenestrated forceps 35 cm length x 2.0 mm dia , 25 cm length x 2.0 mm dia</p>				
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