

**DEPARTMENT OF MEDICINE**

Sr.No.	Name of Equipment	Specification	Qty Required	Suggested Manufactures Name	Approx unit Cost (Rs)	Usage
01	<b>Defibrillator</b>	<p>1. The defibrillator should be biphasic and have Rectilinear Biphasic waveform.</p> <p>2. It should have monitor display of both selected and energy display.</p> <p>3. It should have ability to provide verification of the defibrillator charging and discharging without removing paddles from storage wells .</p> <p>4. In manual mode the unit should provide energy selection at (1-10,15,20,30,50,70,85,100,150,200 or more ) joules.</p> <p>5. It should have default energy sequence 120,150 ,200 joules.</p> <p>6. It should have ability to measure chest compression rate and depth in real time and both visual and optional audible feedback is provided.</p> <p>7. It should have ability that all CPR data can be recorded and reviewed by using software specially designed for doing this (if needed).</p> <p>8. It should have ability to see ECG signal processing extracts CPR artifacts from the ECG so we can see the organized rhythm without interrupting compression.</p> <p>9. It should easy to read three mode of display enables it to see in any enviorment.</p>	3	<p>*Philips pvt.ltd.</p> <p>*BPL Ltd.</p>	330000/-	Life support in ICCU / ICU emergency.
		<p>10. It should be small, lightweight, compact and easy to carry.</p> <p>11. It should come with sealed lead acid battery</p>				

		<p>12. It should have voice and visual prompts and have GPS clock.</p> <p>13. It should have option to provide 3,5 Or 12lead ECG cables.</p> <p>14. It should have option to use with both pads and paddles.</p> <p>15. The paddles should be adult and pediatric and pediatric can be exposed by just sliding of adult paddles.</p> <p>17. The model should be FDA approved and should not be banned by FDA in last two years.</p> <p>18. It should have pacing with 40msec width and constant current.</p> <p><b>Optional</b></p> <ol style="list-style-type: none"> <li>1. SPO2</li> <li>2. ETCO2 main stream or side stream</li> <li>3. NIBP</li> <li>4. Charger for charging battery</li> <li>5. 12 lead ECG interpretation and communication add more diagnostic capability.</li> <li>6. Soft pack carry case</li> <li>7. Roll cage for greater protection of unit in emergency medical services.</li> <li>8. Paddles</li> <li>9. Pads one piece for providing CPR feedback</li> <li>10. Pads to piece for providing CPR feedback</li> </ol>				
02	<b>Multipara Monitor</b>	<p>TECHNICAL SPECIFICATION FOR BED SIDE MULTIPARA MONITOR</p> <hr/> <p>SALIENT FEATURE</p> <hr/> <p>Three channel portable anterior with colour TFT display</p>	<b>16</b>	*BPL Ltd *Drager *Philips	150000/-	Continues monitoring of patients pulse B.P. , SPO2 ECG in critically ill patients.

	<p>In-built thermal array recorder (optional)</p> <p>Graded &amp; Colour coded al</p> <p>Critical alarm review page</p> <p>Inbuilt rechargeable battery and slave display option</p> <p>DISPLAY</p> <p>Type _ High resolution colour TFT display</p> <p>Size : 6.4" (Diagonally)</p> <p>Resolution 640*480 dots or more</p> <p>Excellent viewing from distance and angle</p> <p>Parameters : ECG , Respiration, SpO2, NIBP and Temperature</p> <p>Trace speed : 12.5, 25,50 mm/sec. For ECG &amp; SpO2 6.25 ,12.5 &amp; 25 mm/sec. For respiration</p> <p>OPTIONAL ENCODER /KEYS</p> <p>Optional encoder : Rapid access to all the functions and settings of parameters through single knob</p> <p>Hotkey : Quick action hot keys for alarm recall, NIBP start / stop, recorder start/ stop</p> <p>Freeze &amp; Return to the main screen</p> <p>Smart alarm acknowledge key with flash indicator</p> <p>ECG MONITORING</p> <p>Lead : 3 lead ECG monitoring (I, II,III) with cascade wave form facility</p> <p>Protection : In built cautery and defibrillator protection</p> <p>Pacer detection : Possible</p> <p>HR range : 20 to 270 bpm</p> <p>Arrhythmia : Selectable arrhythmia detection for Bradycardia, Tachycardia, Asystolie.</p> <p>Irregular &amp; Skipped beat</p>				
--	--	--	--	--	--

	<p><b>PULSE OXIMETRY (SpO2)</b></p> <p>PR range : 20 to 250 bpm (+/-3bpm)</p> <p>SpO2 range : 0 to 100%</p> <p>Display : Plethymograph, pulse strength &amp; SpO2 values</p> <p>Accuracy : 100 to 70% (+/- 2 digits) adult</p> <p>100 to 70% (+/-3 digits) neonatal monitoring</p> <p><b>NON-INVASIVE BLOOD PRESSURE (NIBP)</b></p> <p>Principle : Oscillometric</p> <p>Display : Systolic, Diastolic &amp; Mean pressure</p> <p>Modes : Manual STAT (continuous 5 min, operation) and automatic (time interval 2-90 min selectable)</p> <p>Range : 20 to 250 mmHg</p> <p><b>RESPIRATION</b></p> <p>Principal impedance pneumography</p> <p>Display : Waveform with respiration rate</p> <p>RR RANGE : 4 to 150 BPM</p> <p><b>TEMPERATURE</b></p> <p>Range 12 degree C to 43 Degree C or equivalent</p> <p><b>ALARMS</b></p> <p>Alarm setting for all parameters</p> <p>Patient alarm : Red flashing with audio alarm &amp; messages</p>				
--	--	--	--	--	--

	<p>equipment alarm : Yellow flashing with audio alarm &amp; messages</p> <p>Alarm suspend : Contineous yellow</p> <p>Auto setting HR/PR, SpO2, RR &amp; Temperature</p> <p>Manual settings : HR/ PR. SpO2, systolic Diastolic , RR aponea &amp; temperature</p> <p>TRENDS</p> <p>24 hour of graphical and tabular trends for HR/ PR, SpO2 Respiration, Temperature, NIBP trend</p> <p>Alarm recall : Critical alarms with date, time &amp; Message</p> <p>ADULT/PAEDIATRIC/NEONATE APPLICATION</p> <p>All applications from neonate to adult possible</p> <p>RECORDING (Optional)</p> <p>Type : in-built dual channel thermal array recorder for recording ECG, Plethysmograph &amp; respiration waveforms (any two user selectable) with numerical data</p> <p>Modes: Direct/delayed/contineous and record on alarm features</p> <p>POWER SUPPLY</p> <p>Universal power : 95 V -265 V AC, 5060 Hz (+/- 5%)</p> <p>Power rating 50W</p> <p>Battery type 12 V -12 AH scaled lead acid 2 No. (inbuilt)</p> <p>Battery operation : Rechargeable battery for 60 mm of operation under full</p> <p>External batter : 12 V DC input</p> <p>ISO 9001-2000 , CE mark / FDA approval</p>				
--	---	--	--	--	--

03	<b>Electro-nystagmograph PC based Hardware Kit with following details</b>	<p>Castors having locking arrangement, Pullout keyboard shelf. Shelf for PC and Printer</p> <hr/> <p>Hardware Interface</p> <hr/> <p>Cart, Accessories, Computerized Light Bar, Patient safety through optical isolation. Computer controlled folding light Bar.</p> <hr/> <p>Electro-nystagmograph PC based Software Kit with following details: Internal Loop-Back Test to check system integrity</p> <hr/> <p>Notch filter and data validation. Portable Compact size.</p> <hr/> <p><b>Electrodes:</b></p> <hr/> <p>Type: Ag/Ag CI Disc Electrodes</p> <hr/> <p>ENG Cart: Two tier heavy duty cart made of pre-laminated 18 mm thick board with:</p> <hr/> <p>Standard Kit: Acquisition Box, Patient Connector, Accessories: Electrodes, Manual, Cables and Connectors, Recording paste, Dust cover</p> <hr/> <ul style="list-style-type: none"> <li>· Acquisition software on CD</li> <hr/> <li>· Analysis software on CD</li> <hr/> <li>· The ENG Tests: Saccades, Gaze, Pursuit, Positional, Dix Hallpike, Caloric &amp; Optokinetic</li> <hr/> <li>· User definable test sequence</li> </ul> <p>Automatic calculation of Culmination Frequency with manual override</p> <hr/>		<p>*Novaplus</p> <p>*Phacon</p>	330000/-	To diagnose the cause of vertigo dizziness or balance dysfunction by testing vestibular system.
----	---	--	--	---------------------------------	----------	---

		<p>Automatic plotting of butterfly charts</p> <p>Auto calculation of Slow Phase Velocity (SPY)</p> <p>Auto derivation of Canal Perisis and Directional Preponderance</p> <p>Intuitive user interface software</p> <p>Patient data comparison (multiple sessions and/or with normative data)</p> <p>Efficient patient data management using single envelope</p> <p>Patient history chronologically documented</p> <p>Reformatting of Sensitivity &amp;. Filters in Review &amp; Analysis</p> <p>Optional data export to excel file for educational research.</p>				
04	<b>Ventilator</b>	<p>Fast response time combined with high peak flow up to 250 l/min, offer amazing performance. Very sensitive inspiratory &amp; expiratory triggers, allow effective and effortless breathing</p> <p>Amazing sensitive pressure flow sensors and fast response time make it very gentle and synchronized ventilation despite of very efforts by patients. Patented " Flow by technology " makes at virtually effortless triggering in tracheostomized patients. Real time display of curves and loops with unique software. Display Pressure / time. Flow /time. Compliance loop (volume / pressure). Flow volume loop. Measured parameters, calculated parameters, trends, Alarms, Remote control</p>	4	<p>*Siemens Pvt ltd</p> <p>*Dragar Pvt Ltd</p>	800000/-	To give artificial breathing for critical ill patients needs life support

05	<b>Upper GI Endoscope</b>	<p><b>1-A</b></p> <p><b>Should have the following features &amp; specifications :</b>  Slimmer/light weight and fully immersible  Two / Single light guide / processor connector remote switches on control body. Silicon free Air/water and suction valve buttons. Field of view : 120 degree or more. Depth of field : 9.8 mm or less. Distal end &amp; ins. Tube dia. Channel dia : 2.8 mm or more. Bending range : Up - 210 deg Dn-90deg L&amp;R -100 DEG.  Working length : 1010 mm or more</p> <hr/> <p><b>1-B</b></p> <p><b>R.G.B. O/P processor and light source :</b>  Should have the following features and specifications :  Processor / light source unit :Integrated or separate units with Xenon or halogen. Processing : Digital signal processing. Image display size/s : Full or small screen display on monitor. Video out puts : RGB output essential for compatible with RGB monitors.  Edge enhancement : three steps. Light control system :Automatic and manual control. Cooling system :Forced air cooling. Iris control, white balancing, "ON SCREEN " colour control ( 10-14 incr. Steps).  Spare lamp facility with Quick changeover system from Lamp 1 to Lamp 2 and vice versa. Compact &amp; light weight. 1-C. Monitor : 14" RGB (Medical grade).</p> <hr/> <p>2 COMPUTER: Pentium - 4 with multimedia, CD writer &amp; Drive, scroll mouse, 30 GB HD or more Special software for recording endoscopic procedures, 15 inches</p>	3	*Karl storz  *Olympus	1320000/-	To diagnose and treat upper gastrointestinal pathology
----	---------------------------	---	---	-----------------------------	-----------	--



		<p>colour monitor, photo-quality inkjet printer, UPS(30 minutes for more back up).</p> <hr/> <p>3 ESOPHAGEAL DILATORS : Over the guide wire, boogie, length 70 cm or more, in increasing diameter 5 mm to 18 mm, tapering end, with radio-opaque markers, compatible with coated and steel guide wires.</p> <hr/> <p>4 SPRING TIPPED STEEL GUIDE WIRE , 0.38 ESOPHAGEAL ZEBRA OR SIMILAR GUIDE WIRES.</p> <hr/> <p>5 FOREIGN BODY FORCEPS: Compatible with standard 2.8 mm channels upper GI endoscope</p> <p>6 POLYPECTOMY SNARE WITH CONNECTING CORD : Re-usable, compatible with 22mm working channel</p> <hr/> <p>7 BOYLE'S APPARATUS WITH PULSE OXIMETER ( JUSTIFICATION: FOR DOING ENDOSCOPIES IN PEDIATRIC PATIENTS,UNCOOPERA-TIVE PATIENTS AND SERIOUS PATIENTS PROPER</p> <hr/>				
06	<b>Colonoscope RGB O/P processor and light source CD Rom /Writer</b>	<p>Slimmer / light weight and fully immersible</p> <hr/> <p>3-4 remote switches on control body</p> <hr/> <p>Graduated stiffness for better operational control</p> <hr/> <p>Field of view wide 145 degree or more</p> <hr/> <p>Depth of field : 3 mm to 100 mm or better</p> <hr/> <p>Distal end diameter : 13.3 mm or less</p> <hr/> <p>Insertion tube diamter : 13.0 mm or less</p>	3	*Karl storz  *Olympus	3000000/-	To diagnose and treat lower gastrointestinal pathology

	<p>Channel diameter : 3.7 mm or more</p> <p>Bending range : up &amp; Dn - 180 degree I &amp; R -160 degree Working length : 1675 mm or more</p> <p>Processor / light source unit : integrated or separate unit with senon or halogen lamp</p> <p>Processing : Digital signal processing</p> <p>Image display size : Full and small screen display</p> <p>Video output : RGB and composite with simultaneous display</p> <p>Edge enhancement : 3 steps mode</p> <p>Light control system : Automatic and manual control both</p> <p>Colling system : Forced air cooling</p> <p>Spare Lamp : Halogen 150 watts</p> <p>Iris control , white balancing on screen colour control with 12 or more incremental steps</p> <p>*We already have this processor and light source in department )</p> <p>COLOUR MONITOR</p> <p>Compatible high resolution ICL colour monitor , 14 inches with RGB, external sync (Video input)</p> <p>Computer specification</p> <p>PIV</p> <p>Con /Game port</p> <p>On PCI slot free</p> <p>2576 MB RM 40 GM</p> <p>MS office</p> <p>Window XP</p>					
	1024 x 768 - 14 inch monitor					

07	Video ERCP Scope	<p><b>ERCP Scope with Processor and other accessories (Video ERCP (Side Viewing) Scope) :</b></p> <ul style="list-style-type: none"> <li>• Dual (separate) inlet ports for better air and water transmission.</li> <li>• Compatible with leak testing device with auto regulated air flow and pressure.</li> <li>• Four or more no of use programmable remote control switches on control body.</li> </ul> <p>Field of View : 100 degree or more  Direction of View : 5 degree backward oblique viewing  Depth of field : 5 to 60 mm or better  Distal end out diameter : 13.5 mm or less  Insertion tube outer diameter : 12.5 mm or less  Tip bending range : Up 120<sup>0</sup>, down &amp; left 90<sup>0</sup>, right 110<sup>0</sup>  Working length : 1240 mm or more  Channel inner diameter : 4.2 mm or more</p> <p>Instrument should be computable with narrow band imaging / FICE / I-Scan and other high advance definition technology)</p> <p><b>I-B : Light source &amp; Video processor : Should have following features and specification :</b></p> <p>XENON Light source 300 W or more with spare lamp facility (halogen light), capable of generating special band of light (narrow band imaging / FICE / I-Scan) helpful for minute mucosal diagnosis. Automatic IRIS control, picture displays with image size adjustment (3-4 different size of image display), electronic zoom upto 1.5 x or more. Automatic</p>	3	*Karl storz  *Olympus	4400000/-	To diagnose and treat hepatobiliary and pancreatic disease
----	------------------	---	---	-----------------------------	-----------	--

		<p>brightness control, Forced air cooling, white balancing, on screen color control, Compact and light weight, Medical grade 14" monitor (RGB) video output RGB output for compatable with RGB monitor.</p> <p><b>1-C Computer</b> : Window 7 with multimedia DVD writer and Drive, Scroll Mouse, 500 GB HDD or more, special software for recording endoscopic procedures, 15" colour monitor, Photo quality inkjet printer, UPS with 1 hour back up.</p>																								
08	<b>Haemodialysis machine</b>	<table border="1"> <tr><td>1.Computerized Screen</td></tr> <tr><td>2. On Line Treatment Chart</td></tr> <tr><td>3. Auto Self Test</td></tr> <tr><td>4. Acetate &amp; Bicarbonate Dialysis System</td></tr> <tr><td>5. Chemical Disinfection with auto-shut off</td></tr> <tr><td>6. Auto-shut Off Heat Dis-infection</td></tr> <tr><td>7. Sodium, Bicarbonate and U.F. Profiling1</td></tr> <tr><td>8. Single Needle Double Clamp</td></tr> <tr><td>9. Variable Dialysate Flow</td></tr> <tr><td>10. Blood Leak Detector</td></tr> <tr><td>11. Integrated Blood Pressure Monitor</td></tr> <tr><td>12. Volumetric U.F Control</td></tr> <tr><td>13. Blood Pump</td></tr> <tr><td>14. Heparine Pump</td></tr> <tr><td>15.Arterial &amp; venous Pressur Monitoring with Auto Limit setting</td></tr> <tr><td>16. Auto Start features</td></tr> <tr><td>17. Variable Sodium Bicarbonate Control System</td></tr> <tr><td>18. Automatic Drip Chamber Level Adjust</td></tr> <tr><td>19. Inbuilt Dialyser Holder</td></tr> <tr><td>20. Heat Exchanger</td></tr> </table>	1.Computerized Screen	2. On Line Treatment Chart	3. Auto Self Test	4. Acetate & Bicarbonate Dialysis System	5. Chemical Disinfection with auto-shut off	6. Auto-shut Off Heat Dis-infection	7. Sodium, Bicarbonate and U.F. Profiling1	8. Single Needle Double Clamp	9. Variable Dialysate Flow	10. Blood Leak Detector	11. Integrated Blood Pressure Monitor	12. Volumetric U.F Control	13. Blood Pump	14. Heparine Pump	15.Arterial & venous Pressur Monitoring with Auto Limit setting	16. Auto Start features	17. Variable Sodium Bicarbonate Control System	18. Automatic Drip Chamber Level Adjust	19. Inbuilt Dialyser Holder	20. Heat Exchanger	10	<p>*B.Braun Medical India pvt. Ltd</p> <p>*Fresenius medical care</p>	850000/-	For dialysis of kidney failure patients
1.Computerized Screen																										
2. On Line Treatment Chart																										
3. Auto Self Test																										
4. Acetate & Bicarbonate Dialysis System																										
5. Chemical Disinfection with auto-shut off																										
6. Auto-shut Off Heat Dis-infection																										
7. Sodium, Bicarbonate and U.F. Profiling1																										
8. Single Needle Double Clamp																										
9. Variable Dialysate Flow																										
10. Blood Leak Detector																										
11. Integrated Blood Pressure Monitor																										
12. Volumetric U.F Control																										
13. Blood Pump																										
14. Heparine Pump																										
15.Arterial & venous Pressur Monitoring with Auto Limit setting																										
16. Auto Start features																										
17. Variable Sodium Bicarbonate Control System																										
18. Automatic Drip Chamber Level Adjust																										
19. Inbuilt Dialyser Holder																										
20. Heat Exchanger																										

09	<b>RO Plant</b>	<p>Sodium hypochlorite Dosing Through Electronic Dosing Pump  Raw Water Storage Tank 5000 Lts , Loft Tank 500 Lts (Plastic)  Raw Water Feed Pump Monoblock Horizontal  (a) Capacity 1000Lts /Hrs  (b) Head 35 MVC  Multi Grade Sand Filter  (a) Size of Vessels - 185 Dia X 944 Hos  (b) Graded Sand Quantity 50 Kgs  Activated Carbon Filter  (a) Size of Vesels - 185 Dia X 944 Hos  (b) Activate d Carbon Media - 800-900 mg/gm  (c) Body of Vessels - Fiber Reinforced Plastic  Anto Scalent Dosing System Through Electonic Dosing Pump  Micron Cartidge Filter 20 - Poly Proplene PTI ,USA  Hydropneumatic System - Pressure Tank Flexcon USA  RO Feed Pumps Grund FOS (Den Mark) Stainless Steel Body  with 3 phase electric connection  R.O System should be completely skid mounted</p> <p>RO Module with programmable logic control operation  (a) R.O Capacity 200ltrs / Hrs permeate  (b) Recovery 40%  (c) Hydronautics USA membrane Size 4" Dia, 40" long</p> <p>Control Panel  (a) Pressure Gauges - Glycerin Filled - 02 nos  (b) Rota Meters - 03 nos  (c) Digital Conductivity Meter - Two- One For Inlet Water  and Second for outlet Water  (d) Pressure Switches - Two</p> <p>Hydropneumatic System with One feed pump and pressure  tank Interconnecting Pipe work (ISIMarked) from Raw Tank  to RO system and from outlet of RO to treated water tank.</p>	1	*Seion pvt ltd *Aqua Care	250000/-	Used in filtration of water in dialysis Unit
10	<b>ECHO machine</b>	1.System should be a fully digital colour Doppler	1	*Philips pvt ltd	1550000/-	For Cardiac structural and valvular abnormality.

	<p>chocardiography system.</p> <hr/> <p>2. System should use digital beamformer technology , capable of Doppler future techniques , should be upgradable through software and hardware .</p> <hr/> <p>1. system should have multi array probe technology for phased array, linear array, curved array and multiplane TEE Transducer,</p> <hr/> <p>4. System should have high resolution wide field view, flat 15" LCD Screen</p> <hr/> <p>5. Should have capability user to adjust screen, key board height and rotate for increased operator comfort.</p> <hr/> <p>6 . The system should be capable of providing the following imaging and operating modes l</p> <hr/> <p>a. Sector, Linear, Convex, TEE-imaging.</p> <hr/> <p>b.2D, M-Mode colour M-Mode.</p> <hr/> <p>c. Colour flow Doppler imaging.</p> <hr/> <p>d.Ultrasound/colour angio mode.</p> <hr/> <p>e. Fully steerable pulsed Doppler.</p> <hr/> <p>f. Fully Steerable continuous wave Doppler.</p> <hr/> <p>g. Digital cine replay of all imaging &amp; Doppler Modalities.</p> <hr/> <p>h. On Screen cine Doppler &amp; image recall, with large memory HDD.</p> <hr/> <p>i. Digital Image storage and patient archive with true scanner frame rates.</p> <hr/> <p>j. Tissue Doppler imaging tissue colour Doppler coding.</p> <hr/> <p>k.Full Measurement and Analysis capabilities.</p> <hr/> <p>l. Imaging Frequencies from 1.5MHZ to 10.0 MHZ.</p> <hr/> <p>m. Reviews of stored ultrasound images.</p>		*GE tech ltd		
--	--	--	--------------	--	--

		<p>n. User adjustable coloration mass gain setting colour Doppler Angle Correction &amp; other important parameters with live/frozen/archived images/loops</p> <hr/> <p>7. Software driven backlit &amp; illuminated digital touch panel assignable rotary knobs &amp; keys for easy mode &amp; setting changes.</p> <hr/> <p>8. System integrated key board for easy patient data annotations &amp; report entries.</p> <hr/> <p>9. Should have a Display of single dual or Quad images side by side.</p> <hr/> <p>10. System should have a programmable architecture data processing of phase amplitude &amp; frequency.</p> <hr/> <p>11. Images should be stored &amp; analysed with true frame rates, Extensive post processing remeasurement analysis generation of new reports, CD/DVD &amp; USB flash card drive should be available.</p> <hr/> <p>12. Should have a optional digital stress echo pakage of acquiring &amp; display of images.</p> <hr/> <p>o. Both pharmacological &amp; Exercise stress exam capabilities.</p> <hr/> <p>p.Poosibility to modify &amp; create protocol templates.</p> <hr/> <p>q.Image Acquistion review wall motion abnormalities &amp; its reporting.</p> <hr/> <p>Digital Sign Replay, allowing to store &amp; Repaly ultrasound images including 2D, colour, Colour angio, Doppler. The cine repaly should allow to user to change gain contrast sweep speed, base line etc.Image parameters.</p>				
--	--	---	--	--	--	--

11	<b>3 CHANNEL ECG</b>	4" Inbuilt printer 12 Lead Simultaneous Acquisition Leads Off Indication Name / Id label on printout Printer Status Internal SMPS Last print memory HR printout ECG Print style = 3 leads + long lead Axis , Interval printout Defib. and Cautery protection as per standards  Li ion Battery with backup of more than 50 ECG's	<b>06</b>	*BPL India Pvt Ltd *Schiller	175000/-	Functioning and diagnosing of heart pathology (M.I)
12	<b>PULSE OXIMETER WITH NIBP:</b>	A portable and light weight NIBP/Spo2 monitor with plethysmographic waveform display. <b>Features include:</b> <input type="checkbox"/> High resolution graphic LCD with backlit with a plethysmographic display Display of plethysmograph with numerics of %O2, Pulse Rate, Systolic, Diastolic & Mean BP <input type="checkbox"/> Easy menu driven operation <input type="checkbox"/> Programmable audiovisual alarms Trend - 24 hour SPO2 / 100 NIBP readings Mains and battery operated <b>Specifications</b> <b>Electrical:</b> Power supply: 230V AC / 50Hz	<b>3</b>	*BPL Medical Pvt Ltd  *L & T Pvt Ltd	20000/-	Oxygen saturation of patients



	Power Consumption: 3 W Inbuilt battery: NimH 7.2V / 1600 mAH Operating time: >3 Hrs <b>Spo2(NELLCOR):</b> SpO2 range: 40 -100% SpO2 accuracy: ± 2% for 70-100 / ± 3% for 40 -69 Pulse Rate range: 30 -240 BPM Pulse Rate accuracy: ± 2 BPM Messages: Pulse Search Check sensor  No Finger in probe Low battery Alarms SpO2: High / Low 40 - 100% Alarm Pulse Rate: High / Low 30 - 240 BPM <b>NIBP:</b> Technique used: Oscillometric measurement Operation modes: Auto/Stat/Manual Patient type: Adult/Pediatric/Infant/Neonate Cuff pressure display: 0 - 300 mmHg Systolic BP range: 30 - 245 mmHg Diastolic BP range: 25 - 195 mmHg Mean BP range: 50 - 215 mmHg NIBP accuracy: +/- 3 mmHg Cuff deflation: Automatic <b>Physical:</b> Weight: < 2 kgs Dimensions: 198(L) * 132(W) * 178(H) Display type: High resolution Liquid Crystal Display				
--	---	--	--	--	--

13	<b>ECG Machine</b>	<u><b>12 channel ecg m/c</b></u> <hr/> 12 lead simultaneous acquisition <hr/> Digital filters and baseline control <hr/> Configurable printing format <hr/> Automatic measurements of axis, amplitude & intervals <hr/> Unlimited data storage, review & printing <hr/> Long term monitoring mode <hr/> Adjustable sweep speed & gain <hr/> Facility to store and print immediate & offline comments <hr/> Selectable Rhythm lead <hr/> Automatic Heart Rate calculation <hr/>	<b>08</b>	*Schiller  *BPL.Medical India Pvt ltd  *GE	250000/-	Functioning and diagnosing of heart pathology (M.I) –
14	<b>Pulse Oxymeter</b>	<b>Product description:</b> Pulse oximeters should have rigorous environmental/mechanical stress testing such as rough handling and free fall drops, exposure to extreme temperatures and humidity, chemical and cleaning solvent resistance tests. <hr/> <b>Features</b> 1 year warranty 110/220 volt compatible 60/50 Hz & Excellent condition <hr/> <b>Product specifications:</b> More stable SpO2 values providing fever, false alarms Rapidly locate the sensor site with the strongest pulse signal	<b>14</b>	*Nidek medical Pvt ltd  *BPL  *Life Care	3000/-	Oxygen saturation of patients.

	<p>High visibility for quick decisions-backlit, always on screen illuminates large numbers.</p> <p>Full compatibility with all patient types and clinical situations</p> <p>24 hrs trend of memory.</p> <p>TeleOximetry PC Access software, which allows the SpO2 trend data to be download and previewed on PC</p> <p><b>Dimensions:</b></p> <p>Weight 6.5 to 7 16</p> <p><b>Alarm:</b></p> <p>Low/High SpO2</p> <p>Low/High pulse</p> <p><b>Display:</b></p> <p>Digital: LED</p> <p>Waveform: Backlit LCD</p> <p><b>Clock:</b></p> <p>24 hrs clock</p> <p><b>Electrical:</b></p> <p>Battery B volt, 3.2 ampre-hours sealed lead-acid</p> <p>Charge time: 8 hours</p> <p>Operational time:5.5 hrs-6 hoov</p> <p>Power consumption:15 watt-20 watt</p> <p>Input voltage:100 to 240 V, 50/60 Hz</p> <p><b>Following transducers must be provided with the unit:</b></p> <p>Convex Probe with triple frequencies &amp; THI frequencies should be available.</p> <p>Linear Probe for Peripheral Vascular with Fundamental frequencies should be available.</p> <p>Phased Array Sector Probe with fundamental requeencies &amp; THI frequencies should be available</p> <p><b>Following facilities should be provided along with the equipment:</b></p> <p>Suitable stabilizer</p>				
--	--	--	--	--	--

		Thermal Printer <b>Following facilities should be available:</b> HPRF Real time 3d Panoamic view Automatic cardiac flow measurment (acm)				
15	<b>Nebulizer</b>	Ultra Light Only 1.4 Kg. -1.5 Kg. Air Flow Rate 10 LMP - 12 LMP Output Air Pressure : 30 Psi - 35 Psi Low Power Consumption Only 60 W Rise Time Range : 100 to 600 MS adjustable Durable Body : ABS injection moulded body.	15	*Philips *Omron *Equinox	2200/-	Aerosol Drug Delivery System for Asthmatic and COPD Patients
16	<b>Suction Machine</b>	Should be based on diaphragm technology. Vacuum should be more than - 60 mmHg with flow rate of at least 8 Ltr. per minute or more. Should be made for continuous purpose. Should be operated from mains or battery mode (over 100 minutes). Should have optical and acoustic warning signal for battery charge. Jar capacity should have minimum 2 Ltrs. (Non breakable).Should have provision for trolley	07	*Anand *Medicaids *Narang *Medical *Or any other company equivalent CE,& ISO Approved.	12000/-	Aspiration of Gastric Contents in Aspirated Patients
17	<b>Infusion Pump</b>	With accuracy of Drop Counts 0.05 %	30	*Brion *Plenumtech	151000/-	For Continues delivery of drugs which are to be given at a constant rate
18	<b>Laryngoscope</b>	With Infant to adult size all blades	05	*Bajaj Life Care *Anesthetics *India	2500/-	For intubation of critically ill patients to give artificial ventilation
19	<b>Refrigerator 165 Ltrs.</b>	165 Lts temperature maintaining between two to 8 degree centigrade	03	*Kelvinator *Whirlpool	9000/-	For keeping drugs and vials

20	<b>Bipap Machine (Ventilator Non Invasive)</b>	Fast response time combined with high peak flow upto 250 liter per min. Offer amazing performance very sensitive inspiratory and expiratory allow effective and effortless breathing. Amazing sensitive pressure flow sensors and fast response time. Make it very gentle and synchronized ventilation despite of very efforts by patients	<b>04</b>	*Philips pvt ltd  *Refmed Asian pacific ltd	275000/-	To wash out CO2 from body in Co2 narcotic patient and COPD patients
----	--	--	-----------	--	----------	--