

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

S. No.	Name Of The Items	Specification If Any	Unit(s) required*
1	<b>CARDIAC DEFIBRILLATOR</b>	<ol style="list-style-type: none"> <li>1. Should be Biphasic with a maximum energy of atleast 330 Joules ( 2 joules to 330)</li> <li>2. Should walk on manual and automatic extended defibrillation mode</li> <li>3. Should have ECG/defib mode</li> <li>4. Should be capable of synchronized cardioverron</li> <li>5. Should have built in ECG printer</li> <li>6. Should have event summary facility (Records)</li> <li>7. Should have sealed battery capable</li> <li>8. Should have adult /paediatric paddles</li> <li>9. Should have optional SPO2 facility</li> <li>10. Should defibrillate through pads and paddles</li> <li>11. Should have a colour display at least 8 inch</li> <li>12. Should have facility to charge battery Within and outside defibrillator through extended charger</li> <li>13. Should have extended pacemaker facility</li> <li>14. Should be CE or FDA approved</li> </ol>	Three (3) Nos
2	<b>ANAESTHESIA WORKSTATION</b>	<ol style="list-style-type: none"> <li>1. The system should be complete with Anesthesia delivery , Inbuilt Ventilator and CO2 absorber, Gas Monitor and comprise of the following features:</li> <li>2. It should be constructed on Metal frame body.</li> <li>3. It should have colored coded ring indexed fittings with gauges.</li> <li>4. It should have pin-Indexed yoke for 1 no. O2 and 1 No. N2O cylinders.</li> <li>5. It should have Single ON/Off pneumatic switch control.</li> <li>6. It should have Anti Hypoxic device with lever mechanism to prevent flows less than 25% O2 and should confirm to 1:3 ratio.</li> <li>7. It should have electronic flow meter.</li> <li>8. It should have flow meter back light and steplessly adjustable deck lighting.</li> <li>9. It should have Dual Selectatec back bar for mounting agent specific Vaporizers.</li> <li>10. It should have non-return-valve on back bar to protect Vaporizers.</li> <li>11. It should have patient block with common gas outlet, emergencyO2 flush and safety blow-off valve.</li> <li>12. It should have both audible and visual alarms for O2 failure.</li> </ol>	Four (4) Sets.

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>13. It should have Patient Airway pressure monitoring with manometer.</p> <p>14. It Should have Auxiliary O2 outlet</p> <p>15. It should have two rotatable drawers.</p> <p>16. I It Should have writing tray and monitor shelf.</p> <p>17. It should have built-in AGSS.</p> <p>18. It should have 2 recessed electrical power outlets for connecting additional equipment during surgeries.</p> <p>19. It should have central braking system.</p> <p>20. It should have module slot, parameters related with anesthesia should be module design, they can be shared with patient monitor, e.g. CO2, AG, BIS can be optional and upgradable in the future.</p> <p>21. The integrated ventilator should have the following features:</p> <p>22. Should have compatible for low flow Anesthesia procedures.</p> <p>23. V a minimum of 12" TFT display screen.</p> <p>24. Should have ventilation modes such s VCV, Manual / Spontaneous and PCV, PSV, SIMV-VC+PS and SIMV-PC+PS.</p> <p>25. Should have simultaneous 4 waveform displays: P-T, F-T, V-T, CO2-T and spirometry loop (P-V,F-V,P-F).</p> <p>26. Should have user interface of both Touch screen and Com-wheel for navigation.</p> <p>27. Should have built-in FiO2 monitor.</p> <p>28. Should have pressure monitoring and spirometry in all ventilation modes.</p> <p>29. Should have built-in Spirometry gas mixture compensation.</p> <p>30. Should have Patient support facility in spontaneous mode where the ventilator switches over to Volume cycle mode when apnea alarm is triggered.</p> <p>31. Should have facility to set either Tidal or Minute Volume.</p> <p>32. Should continuously display expired and inspired volume to enhance patient safety.</p> <p>33. Should have inverse IE ratio capability.</p> <p>34. Should have electronic PEEP for better Accuracy and convenience.</p> <p>35. Should have auto leak test and fresh gas compensation.</p> <p>36. Should be O2 or Air driven.</p> <p>37. Should have single bellow compatible for both Adult and pediatric patients.</p>	
--	--	--

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>38. Should have Apnea detection and while in SIMV mode should automatically switch mode to CMV.</p> <p>39. The control range should be as follows:</p> <ul style="list-style-type: none"><li>a. Tidal Volume range: 15 ml to 1500 ml.</li><li>b. I: E ratio range: 4:1 to 1:10 limited by tidal volume.</li><li>c. Breathe rate: 4 to 100 bpm, limited by tidal volume.</li><li>d. Pressure control range: 5 to 70 cm H2O.</li><li>e. Air pressure limit: 10 to 100 cm H2O.</li><li>f. Electronic PEEP: OFF, 3 to 30 cm H2O.</li></ul> <p>40. Should have alarms for Low and High O2 concentration , low drive gas pressure, High and low airway pressure, High and low tidal volume, High continuous air pressure, Negative pressure, Apnea, Mains failure, Low battery.</p> <p>41. Should have built-in rechargeable Li-ion battery with at least 120 mins backup.</p> <p>42. In the event of integrated Ventilator failure the system should be capable of manual ventilation.</p> <p>The integrated circle absorber should have the following features</p> <ul style="list-style-type: none"><li>1. Integrated design, no tubes connecting for drive gas and flow meter.</li><li>2. The material should be PPSU, Autoclavable.</li><li>3. Two canisters are standard configuration.</li><li>4. Spring loaded switch for Manual/ Ventilator control.</li><li>5. Manometer for patient inspired pressure.</li><li>6. Bypass Lever for changing Soda during surgical procedure.</li></ul> <p>Vaporizer should have the following features</p> <ul style="list-style-type: none"><li>1. Selectatec compatible Vaporizer with flow and temperature compensation.</li><li>2. Glass window for display of liquid level.</li><li>3. Large capacity: Volume should be at least 300 ml.</li><li>4. Should have transportation model, even if the vaporizer is turned upside down or tilting during transport: it can prevent the anesthetic agent from leaking into the metering elements or escaping air.</li><li>5. No recalibration: do not need to be calibrated at any time during their period of use.</li></ul> <p>Gas Monitor specification</p>	
--	--	--

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

		<ul style="list-style-type: none"> <li>➤ Should have at least 17" Touch Colored active TFT display with at least 12 waveforms and weight not more than 15 k gs including built-in batteries.</li> <li>➤ Monitor should have Modular in design, with built-in Li-ion battery backup for minimum 60 minutes. Temp &amp; AGM suitable for Adult, Pediatrics and Neonates.</li> <li>➤ Should have Oxy CRG to judge the respiration and circulation functions in Neonates.</li> <li>➤ Should have facility for Drug Dose Calculations.</li> <li>➤ It should be possible to operate it through both the touch screen and a trim knob interface.</li> <li>➤ Should have Anesthesia Multi Gas Module (Side stream) to monitor ETCO2 &amp; Anaesthesia Gas.</li> <li>➤ Monitor should have arrhythmia detection (13 types), S-T Analysis and Pacemaker detection.</li> <li>➤ Should have facility for future grade of 4 channels IBP, Cardiac Output (C.O.), 10 Leads ECG.</li> <li>➤ 1200-hour Graphical &amp; tabular trends of all parameters.</li> <li>➤ Monitors should have a facility for defibrillator Synchronization.</li> <li>➤ Monitor should have bi-directional networking facility with central Nursing station.</li> <li>➤ Should have SD card socket, USB ports, VGA output as standard.</li> <li>➤ Manufacturer should have direct service support office in India.</li> </ul> <p>Accessories include 5 lead ECG cable, Adult &amp; pediatric SpO2 sensors one No each, Temperature sensor skin 1 no, NIBP cuffs 3 sizes, sample lines 10 nos.</p> <p><b>Closed circuit (reusable) 2 nos.,</b> <b>Isoflurane vaporizer 1 no,</b> <b>Air/ O2 N2O hoses 1nos each , 2 kg circle absorber 1 no</b></p>	
<b>3</b>	MULTI PARA MONITOR (Five Parameter Monitor) (ECG, SPO2, NIBP, RESP, EtCO2)	<p>MULTIPARAMETER MONITOR</p> <ul style="list-style-type: none"> <li>➤ It should be a touch screen modular multi-parameter patient monitor having following module wise technical specification</li> </ul> <p>TECHNICAL SPECIFICATION</p> <ul style="list-style-type: none"> <li>➤ Size and Weight</li> </ul> <p>Size:434mmx89mmx206mm</p>	Six (6) Nos.

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>Weight: &lt; or =11kg Standard module slot: 1</p> <p>➤ Display 17" Colour Anti-glare TFT LCD Resolution: 1280x1024 pixels</p> <p>➤ Battery Type: rechargeable Lithium battery, 11.1V4.0Ah Operating time under the normal use and full charge:, or = 60 minutes (2 batteries for 120 minutes)</p> <p>➤ Alarm Level: low, medium and high indication: auditory and visual Patient physiological alarm light colour: yellow &amp; red Equipment technical alarm light colour: blue Supports pitch tone and multi-level volume Support custom arrhythmia tone</p> <p>➤ Input device Mouse input: support by USB port Keyboard: support by USB port</p> <p>➤ System output &amp; extensible interfaces Ethernet network : 2 standard RJ45 socket Defibrillation output: 1 RJ11 socket Nurse call: 1 BNC socket Video output: 1 DVI port, 1 VGA port USB 1.1 port :6 Auxiliary module rack connector: 1 SD memory card: 2G (standard configuration) Analog output (ECG or IBP): option Trend and reviewing : Trend: 168 hours NIBP measurement reviewing: 1000 groups ARR event: 128 groups of ARR event and the associated waveform</p>	
--	--	--

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>Alarm events: 128 groups of parameter alarm evens and associated Parameter waveform at the alarm moment</p> <p>Holographic waveform: the storage time depends on the stored waveform And the quality of them</p> <p>EMS and Module Performance:</p> <p>ECG (option)</p> <p>Lead mode: 3-leads ECG INPUT, 12-leads ECG input</p> <p>Lead section; 1,11,111,1,11,111, aVR, Avl, Avf, VS (option)</p> <p>Gain: 2.5mm\Mv(X0.25) ,5mm\mV(x0.5), 10mm\mV(x2), 40mm\mV(x4), auto CMRR : monitor mode &lt; or= 105dB, diagnostic mode &lt; or = 90dB</p> <p>Frequency response (-3Db): Monitor mode 0.5 —40 Hz, diagnostic mode 0.5 '150Hz</p> <p>Input impedance : &lt; or = 5.0MQ</p> <p>ECG signal range : +10.010.0 My</p> <p>Patient leakage current: &lt;10 Ua</p> <p>Standardizing signal: 1 mV + or — 5%</p> <p>Baseline recovery: &lt;5s after defibrillation. (Mon or Surgor Mode)</p> <p>Indication of electrode separation: every electrode (exclusive of RL)</p> <p>Protection: breakdown voltage 4000VAC 50\60Hz, defibrillator proof</p> <p>Sweep speed: 12.5mm\s, 25mm\s, 50mm\s</p> <p>&gt; HR</p> <p>Range: adult 10-300</p> <p>Paediatric and neonate:10-350bpm</p> <p>Refreshing time :&lt; Or =50bpm per 2 pulses, 50-120 bpm per 4 Pulses/ or =120bpm per 6 pulses Resolution; lbpm</p> <p>Accuracy-F1% lbpm whichever is greater</p> <p>ST Segment</p> <p>Measurement range:-2.0mV-2.0Mv</p> <p>Accuracy :-0.8to 0.8Mv Resolution:0.01My</p>	
--	--	--

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>➤ Resp</p> <p>Method: thoracic impedance</p> <p>Lead selected from: 1(RA-LA) or 11(RA-LL). Default 1</p> <p>Gain:x0.25,x1,x2,x4</p> <p>Bandwidth:0.25Hz to 2GHz(-3Db)</p> <p>Sweep speed :6.25mm/s,12.5mm/s,25mm/s</p> <p>Measurement Range:0-15Orpm</p> <p>Resolution:1rpm</p> <p>Accuracy: + 2rpm or 2% whichever is greater</p> <p>Delay of apnea alarm: 10s, 15s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s.</p> <p>➤ NIBP</p> <p>Way of measurement ;automatic oscillometry</p> <p>Range of Measurement</p> <p>Adult: sys 30-20mmhg, Dia10-220mmhg, MAP20-235mmhg Child: sys 20-235mmhg, Dia20-220mmhg, MAP20-225mmhg Neonate: sys 30-135mmhg, Dia10-100mmhg,MAP20-125MMHG Cuff pressure range:0-300mmhg,</p> <p>Resolution: 1 mm hg</p> <p>Pressure accuracy:static+2% or +3% mm hg whichever is greater</p> <p>Clinical+ or -5%mmhg average error, standard deviation : less than equal to8mmhg</p> <p>Measurement mode:: auto , STAT</p> <p>Intervals for AUTO measurement</p> <p>time:1.2.3,4,5,10,15,30,60,90minutes;2,4,8,12hours</p> <p>STAT Mode cycle time: keep 5minutes at 5 seconds interval</p> <p>Overpressure protection: hardware and software double protections Pulse rate range:40-240bpm</p> <p>Spo2 Module</p> <p>It should have facility of three types of measurement Digital technique, Nellcore spo22, Masimo Spo2</p> <p>Measurement range0-100%</p> <p>Resolution:1%</p> <p>Accuracy: at 70-100%= or-2% at 0-69% unspecified</p> <p>Average time:2 -4s, 4-6s, 8s, 10s, 12s, 14s, 16s</p> <p>➤ PR</p>	
--	--	--

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

	<p>Measurement Range:20-300bpm Resolution:1bpm Accuracy:20 bpm to 250bpm, = or-3bpm, 251bpm to 300bpm unspecified &gt; TEMP Max CHANNEL :8 Measurement way : thermal resistance Measurement range: 0.0degree Celsius to 50 degree Celsius(32 Degree F-122 Degree F) Accuracy + or -0.1degree Celsius or + or- 1 degree F Resolution : 0.1 degree Celsius or 1 degree F  &gt; Etco2 It should have facility of three types of Etco2 measurement  Side stream, Mainstream, Micro stream Measurement method: infrared spectrum Warm up time: capnogram displayed in less than 15 seconds at an ambient temp of 25degree Celsius, full specification within 2 minutes Measurement range: 0-19,7 %(0-150mmhg) Resolution:1mmhg Unit:1% , mmhg, kPa CO2 Accuracy:0-40 mmhg +2mmhg,41-70mmhg±,5% of reading,70-100mmhg ± 8% of reading,101-150mmhg+10% of reading Co2 response time : less than 3s awRR measurement range:2-15Orpm awRR measurement accuracy ±1rpm sample flow rate; 50m1/min + 10m1/min calibration: offset calibration : auto, manual, gain calibration  &gt; OPTIONAL  <ul style="list-style-type: none"> <li>• Should have option to upgrade Monitor (Optional).</li> <li>• IBP Non Invasive Cardiac Output (optional).</li> <li>• Anesthetic Gas (OPTIONAL)</li> </ul> </p>	
--	---	--



Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

4	<b>VIDEO LARYNGOSCOPE WITH COMPATIBLE DISPLAY MONITOR.</b>	<p>A. Laryngoscope Blades: - 2 blades -2 laryngoscope blades (normal Adult &amp; small adult blade) with specially designed view tube allowing vision of 48 degree from straight line of sight. Integral oxygen port to extend the intubation time. Easy link up to Endoscopic systems provided. Blade containing replaceable fiber-optic element. Replaceable fiber clip for easy cleaning. Stainless steel, fiber-optic blades that complies with Green System (ISO 7376 (iii) compatible.) handles. Blade that fits on to international slandered ISO compatible handle. All contact points between blade and handle must be of stainless steel. Production batch number must appear on blade.</p> <p>B. <u>Optishape Stylets</u> – 2 Stylets Re-usable stainless steel stylets (to be used with all Sizes of ET Tubes) having performed shape.</p> <p>C. Rechargeable Handle – Rechargeable Handles. LED light source with light output in excess of 2,800 Lux. Must hear click when blade is engaged onto handle to protect against faulty placing of blade. Handle components of electrical system must be manufactured from stainless steel to prevent corrosion. handle conform to international standard ISO 7376 (iii)</p>	Two (2) Nos.
5	<b>Fast track</b>	<p>1. Intubating Laryngeal mask Airway Set. (Fast Trach)</p> <p>2. Silicon with steel re-enforcements conforming to oro-pharyngeal anatomy with handle with; with inflatable cuff; with pilot balloon ; with lumen to pass ETT with appropriate size ETT; with stabilization rod; with cuff deflator.</p> <p>3. Intubating Laryngeal mask Airway Set. (Fast Trach)Silicon with steel re-enforcement conforming to oro-pharyngeal anatomy with handle; with inflatable cuff; with pilot.</p> <p>4. Size 5, Size 4 ,Size 3</p>	Twelve (12) Nos. Including 2 Nos of Size 5, 5 Nos of Size 4 , 5 Nos. of Size 3
6	<b>PORTABLE USG</b>	<p>Technical specification For Portable Color Doppler Ultrasound Unit for regional Nerve Blocks, Vascular Access in OT and ICU. Also to help USG of abdomen &amp; Chest of sick bed ridden patient on ventilator.</p> <p>1. The unit should be compact, light weight and portable. Specify weight and dimensions. Weight should not exceed 10 kg excluding card and accessories.</p>	One (1) Nos.

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

2. It should be suitable for vascular access (CVC placement, PICC, DVT,), Nerve blocks (Lower as well as Upper extremity), E-FAST examination, AAA Exam, small parts, applications in adults and pediatric patients and also suitable for echocardiography, interventions. Multiple preloaded applications present should be available.

3. The unit must have real time compound imaging for improved contrast resolution and eliminating ultrasound artifact to achieve optimum image quality on convex & linear transducers.

4. The unit should have automatic gain adjustment for B mode.

5. Scanning depth must be available up to 30 cm.

6. System should support broad band probes spanning with frequency range from 1-14 MHz(8+8 1 MHz)

7. Imaging modes of Real time 2D, Colour Doppler, Pulsed wave Doppler, Continuous wave Doppler, Power (energy) Doppler should be available.

8. Controls for 2 D mode: Total gain,depth,d8Technical specification For Portable Color Doppler Ultrasound Unit for

Regional Nerve Blocks, Vascular Access in OT, ICU.\*

9. System should have fast boot up to scanning as essential in critical and emergency situation in ICU

10. Unit must be sturdy, resistant to breakage & damage on fall/hit against wall or hard surface.

11. Controls for color Doppler: PRF, color gain position and size of ROI, steering color maps and color invert.

12. Controls for pleased Doppler: variable sample size from 1 to 5 mm or more, steer, PRF, baseline, gain, angle correction, spectral invert.

13. Cine memory on all modes.

14. DICOM ready system with print, save modality work list for connection to DICOM network.

15. Flat LCD /TFT monitor of at least 10 inches.

16. Alphanumeric soft key keyboard with easy access scans controls, sanitization of system keyboard must be possible to avoid cross contamination.

17. Onboard storage of at least 10000 Images. Storage in BMP and AVI format should be possible. Sorting of database with patient name and date should be possible.

18. USB port for connectivity to computer.

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

		<p>19. Unit should function with 200-240 V, 50Hz AC, 5 AMP power outlets. Specify power requirements.</p> <p>20. Must be able to operate both on AC and inbuilt battery, Inbuilt battery pack should be self- recharging and should last at least for 2 hours when fully charged.</p> <p>21. Transducers:-</p> <p>A. Convex 2-5 MHZ for deep nerve access Specially Celiac, Epidural, Subgluteal Sciatic nerve &amp; abdominal applications.</p> <p>B. High Frequency Linear transducer 6-12 MHZ for vascular access, small parts, vascular, musculoskeletal interscalence, supraclavicular, Auxiliary,</p> <p>C. Phased array 2-4 MHZ adult Echocardiography, FAST Applications.</p> <p>D. Needle guide must be supplied with convex and linear probes.</p> <p>22. B/W Thermal Printer should be providing for recording.</p> <p>23. 50 Nos of Thermal Printer roll should be supplied.</p> <p>Optional probes to be quoted with Price.</p> <p>a. Phased array 4-8 MHz for pediatric cardiac Application with PW &amp; CW facility.</p> <p>b. High Frequency Linear transducer 6-13 MHz (+/- 1 MHz) or more with less imaging in Pediatric patients. Higher frequency will be preferred.</p>	
7	<p><b>AUTOCLAVE MACHINE</b> (HORIZONTAL AUTOCLAVE)</p>	<p>1. Double walls inside and outside made of stainless steel of 304 quality.</p> <p>2. The complete structure including base frame, stand hinge door and all parts shall be made of 304 quality stainless steel only.</p> <p>3. Radical locking system with safety mechanism shall ensure risk free &amp; leak proof sterilization cycle.</p> <p>4. Automatic self closing of door during operation.\</p> <p>5. S.s steam generator.</p> <p>6. Water level indicator to indicate water level inside the boiler.</p> <p>7. Fully automatic pid controller to control autopurging, purging,stop , auto exhaust, temperature control facility, cycle completion alarm.</p> <p>8. Volume must be at least 98l liters or more.</p> <p>9. Manufacturer must have ISO certifications &amp; product must be CE certified.</p>	Two(2) Nos.



Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

<b>12</b>	<b>SUCTION MACHINE</b>	<p>Suction machine should have following features:</p> <p>A. Oil less pump, maintenance free piston pump</p> <p>B. 2 autoclavable jars of 4-5 liters each</p> <p>C. Jars should be autoclavable at least 134 degrees Celsius</p> <p>D. Antistatic wheels with brakes</p> <p>E. Footswitch with intermittent or continuous use</p> <p>F. Electronic change over with button</p> <p>G. Suction should be at least 60 i/minute</p> <p>H. Maximum Vacuum 0.85 bar – 650 mmHg or more</p> <p>I. Energy saving to reduce speed of motor when no suction is taking place and the machine is on</p> <p>J. Device should be noiseless: noise should be less than 53 dB</p> <p>K. ABS fire extinguisher housing. It does not burn with direct flame. Flame reluctant.</p> <p>L. Price list of all accessories required after the warranty period must be quoted separately</p> <p>M. US FDA approved</p>	Ten (10) Nos.
<b>13</b>	<b>FIBROPTIC RIGID LARYNGOSCOPE</b>	<p><b>FIBROPTIC RIGID LARYNGOSCOPE</b></p> <p>➤ <b>CE Marked</b></p> <p>➤ <b>with 4 blades (1,2,3,4 size) Macintosh/curved</b></p> <p>➤ <b>Should be Fibreoptic</b></p>	Thirteen (13) Nos.
<b>14</b>	<b>AIR MATTRESS WITH PUMP</b>	<p>Air Mattress:</p> <p>Air Cushion with pump electrically driven with alternate inflation &amp; deflation weight unit 120 Kg end flaps for secure fixing, adult size. The pump with minimal vibration and sound: light weight and compact, visual low pressure indicator.</p>	Fourteen (14) Nos.
<b>15</b>	<b>SYRINGE INFUSION PUMP</b>	<ol style="list-style-type: none"> <li>1. Line powered as well as battery operated.</li> <li>2. Should accept all standard marketed syringes from 10 ml – 100 ml.</li> <li>3. Should provide flow rate range from 0.1 ml -200 ml in steps of 0.1/ul/hr.</li> <li>4. Should be able to give bolus of different range.</li> <li>5. Selectable occlusion pressures trigger level.</li> <li>6. Mean pressure generated &lt;20 Psi,</li> <li>7. Alarm Occlusion alarm</li> <li>8. Mean end alarm</li> <li>9. Volume limit alarm</li> <li>10. Power failure alarm</li> </ol>	Twenty (20) Nos. to be excluded from this proposal list and clubbed & incorporated in Pediatrics Tender

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

		<p>11. Optional- (I) log book , (II) Near occlusion display</p> <p>12. FDA /CE Approved.</p> <p>CMC should include calibration of equipment every six months by</p>	
<b>16</b>	<p>TRAUMA STRETCHER CUM PATIENT TROLLEY STRETCHER (4 SECTIONAL)</p>	<p>S.-Should have 4 sectional base with 4" mattress made of X-Ray translucent pretreated material</p> <p>&gt;4C-ray cassette that can slide through the entire stretcher (under the platform) of the trolley.</p> <p>D-Overall dimensions should be Length 210-215 cm &amp; Width 82-85cm</p> <p>S.-Weight Capacity should be 220-230Kg</p> <p>S.-Foot Pedal Controlled Hydraulic operated Trolley with foot pedal on both sides of the Trolley.</p> <p>&gt;••Operable in 3 Modes through lever: Brake (Available in all wheels)/Steer (Available in 2 Wheels) and Neutral.</p> <p>S.-Height to be attained: Maximum 100 cm and Minimum Height 60 cm.</p> <p>&gt;••Should have backrest adjustment between 0-90</p> <p>S.-Pneumatic step less adjustment for back section with Trendelenberg and Reverse Trend.</p> <p style="text-align: right;">180</p> <p>S.-Patient Surface should be around 195 x 66 cm</p> <p>S.-Protective Corner Bumpers x 4 nos.</p> <p>S.-Collapsible Side rails 125 x 40cm</p> <p>D-Heavy duty castors of Diameter 8"</p> <p>S.-Backboard Ascending and Descending Knob o-goo</p> <p>S.-Should have facility for Housing "B" type Oxygen Cylinder Holder on the base Platform</p> <p>&gt;••IV Pole inserted Hole (5 Nos.)</p> <p>S.-Integrated Patient Weighing Mechanism with BMI</p> <p>&gt;•.Retractable fifth wheel steering.</p> <p>S.-Platform with weighing capacity up to 10Kgs for keeping of Medical Devices</p> <p>&gt;••Led Light for giving Signal for Emergency Patient Alert Alarm.</p> <p>S.-Should be manufactured by a well known international brand with CE marking and USFDA</p>	<p>4</p> <p>(Four) Nos.</p>

Dr Baba Saheb Ambedkar Hospital  
(Govt of NCT of Delhi)  
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Anesthesia)

Tender ID – 2017\_BSAH\_130983\_12

<b>17</b>	Oxygen Regulator for B type Cylinder	Oxygen flow meter with regulator and humidifier bottle oxygen regulator -one stage, pressure pre-set good quality, MOX type, outlet pressure 55 psi, should accommodate any standard flow meter and ventilator, safe for patient use, should be quoted with standard flow meter as part the assembly, Oxygen flow meter Polycarbonate non breakable humidifier bottle. Includes floating type flow meter. Fine adjustment value with flow meter and humidifier. Flow rate 0-131/min calibrated, good quality oxygen flow meter, flow control knob. Bobbin for flow indicator, safe for patient care, back pressure compensated.	25 (Twenty Five) Nos.
<b>18</b>	Oxygen Regulator for D type (Double gauge) Cylinder	Double stage regulator for use on D type bulk cylinders reduces cylinder pressure and provides precise and constant delivery pressure forged brass body and housing cap Delrin cap bruising for smooth adjustment self re-seating external pressure relief value sintered bronze inlet filter stem type seat assemble for more reliable performance 2" gauges for easy reading 1-1/4" & 2" diaphragms color coded steel gauze protectors conforms to CGA E-4 standard for pressure regulators	20 (Twenty) Nos.
<b>19</b>	Oxygen Regulator with Diamond Connector for Gas pipe line outlet	Oxygen Flow meter-diamond III type with humidifier bottle with adapter , nipple, humidifier bottle o adaptable to existing central pipeline oxygen outlets installed in the hospital inspection of existing system may be done before quoting to include floating type flow meter . Fine adjustment value with flow meter and humidifier. Polycarbonate non breakable humidifier bottle. for oxygen cylinders only flow rate 0-131/min calibrated good quality oxygen flow meter Bobbin for flow indicator, safe for patient care, back pressure compensated.	20 (Twenty) Nos.
<b>20</b>	Suction unit for Gas pipe line outlet  (Imported)	Wall Suction unit Compatible with existing central pipeline vacuum outlets installed in the hospital with compatible adapter, Collection bottle, regulator etc., Inspection of the existing system maymay bee done before quoting sturdy non breakable brackets to be supplied along with for attachment of Suction Unit to the wall	20 (Twenty) Nos.

\*The quantity is approximate and may vary at the time of placing orders.