Appendix-'B'

1. CPR SIMULATOR

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. The material of mannequin should be of polyvinyl or silicone rubber, free from any hazardous materials. 2. The texture of the mannequin should be as close to the feel of the baby/adult skin as relevant. 3. The Internal parts of the mannequin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation. 4. It should have features to demonstrate opening of airway, head tilt/chin tilt and jaw thrust techniques. 5. Adult CPR Mannequin should have disposable airways. 6. Adult CPR Mannequins should have removable, reusable faces. 7. Adult CPR mannequin should have an indicator which confirms correct chest compression technique. 8. It should have compression spring for consistent resistance.	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Dimensions:	Adult torso		
Mobility, portability:	Yes, portable		
Accessories & spare parts	1)10 nos. reusable mannequin faces. 2)10 nos. reusable airways. 3)50 nos. mannequin wipes.		
Atmosphere/Ambiance (air-conditioning, humidity, dust)	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.		
Warranty	3 years against functionality excluding aesthetics.		
Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented User, technical and maintenance manuals to be supplied in English/Hindi language alongwith visit log sheet.		

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2. MEDICAL EXAMINATION KIT FOR SEXUAL ASSAULT KIT

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Detailed Instructions for The Examiner 2. Forms for Documenting the Procedure and Evidence Gathered. 3. Comb 4. Tubes and Containers for Blood and Urine Samples 5. Paper Bags for Collecting Clothing and Other Physical Evidence. 6. Swabs for Biological Evidence Collection 7. A Large Sheet of Paper on Which the Victim Undresses to Collect Hairs and Fibers 8. Dental Floss and Wooden Sticks for Fingernail Scrapings Glass Slides 9. Sterile Water and Saline 10.Envelopes Boxes and Labels for Each of The Various Stages of The Exam	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.

3. MEDICINES - QRs/SPECIFICATION AND TDs NOT REQUIRED.

4. PORTAL OXYGEN CYLINDER

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. High pressure seamless cylinders for medical oxygen gas cylinder should be ISI marked, certified by the bureau of Indian standards and approved by the chief controller of explosive, Govt of India 2. Gas cylinders should be labelled as the primary means of identifying the contents of the cylinder 3.Cylinder made from manganese steel 5 ltr capacity 4. Fitted with pin index flues type valve for direct use on anesthesia machine 5 Valve made of brass and chrome plated 6. Working pressure 150kg f/cm2 at 15 deg.C 7 Hydraulic pressure 250kg f/cm2 8 Color code of the cylinder should be as per IS 3933-1966 with updating till date	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.

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	9. Certificates: manufacture certificate, ISI certificate and Dept. of Explosion, Govt of India to be provided for each cylinder at the time of supply 10. Filled with medical oxygen gas of medical grade 11. Matching key cum spanner to release oxygen for each cylinder separately	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Training of staff (medical, paramedical)	Training of users in handling and basic maintenance shall be provided		
Warranty	2 years against functionality excluding aesthetics.		
Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented User, technical and maintenance manuals to be supplied in English/Hindi language alongwith visit log sheet.		

5. DELIVERY SET

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	**Components** Episiotomy scissors 6" 01 no Tissue cutting forceps 6" 01 no Vulsellum forceps 10" 01 no Suture cutting scissors 10" 01no Cord clamping forceps 12" 02 no Needle holder 8" 01 no Alleys tissue forceps 8" 02 no Sims vaginal speculum 01 no Sponge holding forceps 12" 01 no Toothed forceps 6" 01 no Non toothed forceps 6" 01 no Artery forceps curved 6" 02 no BP handle 01 no	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Training of staff (medical, paramedical)	Sensitivity and nature and procedure of interaction with the patient are to be precise. Detailed guidelines for the steps to follow the medical examination should be made available in English/Hindi		

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6. FOLDABLE STRETCHER

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Stretcher with extractable handles 2. Folds in length and width, 3. Has straps permitting it to be carried like a rucksack (backpack) when folded. **Materials :** Frame tube and feet: anti-corrosion-coated anodized Aluminium **Stretcher covers:** Canvas, polyethylene fabric flexible highly tear resistant, anti-static, flame retardant, disinfectant and liquid proof and washable **Size:** Overall dimensions, open: 2,232x550x137mm with handle removed, ready to use. Overall dimensions, folded: 1,040x130x180mm Weight: 8.9kg Frame: seamless aluminium structure made of tubing (pole) diameterx thickness approximately 30x1.5mm with padded carrying handles. Lock: Quick-lock-stop for rapid fixation/release of the fixation bars for folding Colour coded patient restrain straps with double locking Quick release safety buckles and built in head restraints system.	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Pre-installation requirements:	Nature values, Quality, Tolerance Supplier to perform safety and operation checks before handover,		
Warranty	01 YEAR		
Operating manuals, service manuals, other manual	Advanced maintenance tasks required shall be documented. User, technical and maintenance manuals to be supplied in English/Hindi language along with machine diagrams		

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7. BLOOD CLOTTING PATCH

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Should be Fast and reliable 2. Should achieve hemostasis in approximately 1 minute Hold for only 30 seconds 3. Increased patient safety 4. Should be free of human or animal components, eliminating risk of viral transmission 5. Should be Effective in cases of inhibited coagulation 6. Must be useful in both open and laparoscopic procedures 7. No special storage requirements should be required	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Training of staff (medical, paramedical	Training of users in handling and basic maintenance shall be provided		
Warranty	Minimum 02-year guarantee against functionality excluding aesthetics		
operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented User, technical and maintenance manuals to be supplied in English/Hindi language		

8. ENDOSCOPE

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Vedio processor with light source and monitor 2. Power supply - 200 -240v a/c 3. Must have HDTV imaging 4. Must have real time NBI/FICE/I-Scan 5. Controls for colour adjustment for enhancement and balance settings 6. Iris area selection facility with edge enhancement settings 7. Automatic brightness control 8. Controls to freeze images enhance a portion of frozen image (zoom and post processing) with RGB and digital output 9. Patient and physician data input key board 10.Operates on 300 watts xenon lamp/led	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.

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	11.Halogen/led/xenon emergency lamp should be there 12.Compatibility with gastroscope and colonoscope and side viewing duodenoscope 13.Image storage and retrieval facility and freeze with simultaneously live display of multiple images 14.Preferably 21 lcd color medical grade monitor with picture in picture facility 15.Electronic zoom up to 1.5x 16.Instrument should be light weight (10-12 kg) and compact 17.Processor should be compatible for future upgradation on endosono enteroscope and side viewing duodenoscope	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Forward viewing gastroscope	1. Direction of view should be zero degree 2. Minimum of 130 degree field of view 3. Depth of field at least from 2 mm to100mm or better 4. Angulation of tip upto 180 degrees down 90 degree right 100 degree and left 100 degree or better 5. Insertion tube diameter of less than 10mm 6. Distal end diameter of not more than 10.5 mm 7. Instrument channel diameter should be 2.5 mm or more 8. Working length should be atleast 1000mm. 9. Should be compatible with the video system specified 10.Should have separate locks for up down and left right knobs 11.Should be fully immersible in disinfection solution 12.Minimum visible distance of instrument used through channel should be 3 mm or closer from distal end 13.Should be suitable for real time nbi/fice/i-scan 14.Build in hdtv compatible ccd with close focus observation range from 3 mm or better		
Forward viewing colonoscope	1.Build in GDTV compatible CCD with close focus observation range from 3 mm or closer from distal end 2. Should be suitable for real time NBI/FICE/I-Scan 3. Direction of view should be zero degree 4. Minimum of 140 degree field of view 5. Depth of field at least from 2mm to 100 mm or better 6. Angulation of tip up 150 degrees down 150 degree right 150 degree and left 150 degree or better		

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	7. Insertion tube diameter of less than 13 mm 8. Distal end diameter of not more than 14 mm 9. Instrument channel diameter should be 3.5mm or more 10. Working length should be minimum 1600 mm. 11. Should be compatible with the video system specified 12 .Should have separate locks for up-down and left right knobs 13. Should be fully submersible in disinfection solution 14. Minimum visible distance of instrument used through channel should be 5 mm or closer from distal end 15. Auxiliary water jet channel for mucosal cleaning should be there 16. Built in HDTV compatible CCD with close focus observation range from 3 mm or better	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Essential accessories for gastroscope and colonoscope to be quoted separately	1. All these accessories should be BIS approved 2. Reusable metallic biopsy forceps for use with upper GI endoscopes-05 nos 3. Reusable metallic biopsy forceps for use with lower GI endoscope-05 nos 4. Cleaning/instrument channel knob/valve-05 nos for each scope 5. Suction channel knob-05 nos for each scope 6. Air water channel valve-05 nos for each scope 7. Metallic endoscope channel cleaning brush-10 nos for each scope 8. Extra xenon bulb-04 nos, 9. Cytology brush-10 nos for each scope 10.Leakage tester -02 nos for each scope		
Hardware for recording and printing	1.Intel pentium i7 processor with ht tech 3.0 ghz or better 2.Intel motherboard supporting pentium i7 processor or higher 3. 8 gb ram hdd or more 4. 1 tb hdd or more 5. DVD writer compatible mbps ethernet card + connectivity 6. 2 serial and 1 parallel ports 7. 8xusb port (2.0) 8. Multimedia key board 9. Optical scroll mouse 10.Multimedia speakers 11.Software for direct recording/archiving of images/vedio to computer and for DVD conversion along with video editing feature. 12.High resolution colour printer with 4 spare colour cartridges 13.External 2 tb hard disc-05nos 14.Preloaded with original windows and anti virus with 1 yr Validity		

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Ups	UPS to take care of the above equipment in case of power failure. Mobile cart with suitable compartment to house all the above equipment including computer with extension board	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
Training of staff (medical, paramedical	Training of users in handling and basic maintenance shall be provided		
Warranty	5 year warranty & 5 yr comprehensive maintainance contract should be provided (year wise rate to be quoted) from the date of successful commissioning An under taking from company should be taken regarding availability of spares for the next 10 years		
Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented User, technical and maintenance manuals to be supplied in English/Hindi language		

9. PORTABLE DEFIBRILLATOR WITH RECORDER

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Should be a Low Energy Biphasic defibrillator monitor with Recorder, having capability to deliver shocks from 2 Joules to 200 Joules. 2. Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles. 3.Should compensate for body impedance for a range of 25 to 150 ohms 4. Should have a built in 50 mm strip printer 5. Should have charging time of less than 5 seconds for maximum energy. 6. Should have High resolution more than 8-inch Color display for viewing monitoring parameters like ECG, SpO2, NIBP and etCO2 with 4 waveform capability of 4 seconds. 7. Both Adult and pediatric paddles should be available. 8. Should have event summary facility for recording and printing at least 55 events. 9. Should have a battery capable of usage for at least 5 hours of monitoring. 10. Should be capable of printing Reports on Event summary, configuration, self-test, battery capacity etc.	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.

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	11. Should have facility for self-test/check before usage and set up function. 12. Should have facility to monitor parameters like SpO_2, IBP and $etCO_2$ along with non-invasive pacing (Demand & Fixed mode) facility. 13. Should be able to upgrade the defibrillator for 12 lead ECG monitoring and ECG	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.
System Configuration Accessories, spares and consumables	1. Defibrillator with AED and External Pacemaker – 01 2. Adult with Built in Pediatric External Paddles - 01 3. Patient cables - 01 4. ECG Rolls – 50 5. Adult SpO_2 reusable Sensor – 01 6. Adult NIBP Cuff and Hose – 01 7. 88 $etCO_2$ Tubing (box of 20) – 01 box 8. AED Multifunction Pads for Adults - 10 pairs with Each unit		
Environmental factors	The unit shall be capable of operating continuously in ambient temperature of 5 – 45 deg C and relative humidity of up to 95% Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.		
Power Supply	Power input to be 120-240VAC, 50-60 Hz Should have a battery capable of usage for at least five hours.		
Training of staff (medical, paramedical	Training of users in handling and basic maintenance shall be provided		
Warranty	03 years		
operating manuals, service manuals, other manuals	User Manual in English/Hindi Service manual in English/Hindi List of important spare parts and accessories with their part number and costing Certificate of calibration and inspection from factory. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out List of Equipment's available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual		

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10.	BITS PORT MOUTH REVERSIBLE LARGE -	ITEM PERTAINS TO VETERINARY SECTION.

11. MULTI PARAMETER WITH MONITOR

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
GENERAL SPECIFICATIONS	1. Should have large bright colour LCD display of "12" or more. Should be capable to display up to 10 waveforms. 2. Should monitor NIBP, IBP (2CH), ECG (5 Lead), SP02, Temp. Should have facility for arrhythmia and ST Segment Analysis. 3. Should able to detect irregular pulse and arrhythmia events. 4. Should be suitable for Adult to Neonate usage. SP02 measurement range should 0 to 100%. 5. Should be capable of measuring oxygen saturation even in case of motion artefacts. Should have 24 hrs trend facility for all parameters. 6. Should have audio- visual alarms for all parameters and should display alphanumeric alarms messages. 7. Should have automatic and manual alarms setting for all parameters. Should have inbuilt 3ch Thermal recorder with selectable recording speed. Should be easy and simple to operate. 8. Should have C02, N20 & Anaesthesia Agents monitoring using side stream technology. 9. Should be supplied complete with following : ECG Cable (5 lead) 02 No, Adult BP cuff 02No Paed Bp Cuff 02 No, Neonatal BP cuff & 5 cm) 02 no's each SP02 Probe finger with complete cable 02 No Universal SP02 Probe for paed & Neo 02 No IBP Transducer (reusable) with cable 02 No's Body temperature sensor (rectal) 01 No's 10. Should provide 5 Year warranty and 5 Years AMC/CMC after that Demonstration is a must. 11. Company should have at least 10 installations of similar products to govt institutions in last 5 Years. 12. Firms must have installed same equipment in at least TEN Government Hospitals without problems.	OEM should submit an undertaking regarding its quality and specifications. Board should check or measure the product.	As per specification.

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