


















S/No-10

Appendix-1J (i)

S.N	NAME OF THE EQUIPMENT	IS IT AVAILABLE IN PET (AS PER 100 BADED). IF YES THEN MENTIONED SL.NO. OF PET	QRS AVAILABLE OR NOT
1.	ALCOHOL BREATH ANALYZER	Yes (1482)	Yes
2.	DEEP FREEZER WITH FACILITIES TO STORE/ KEEP 2 DEAD BODIES	Yes (1373)	Yes
3.	BMI MACHINE	No	Yes
4.	FIBRE OPTIC ENDOSCOPE	No	Yes
5.	HUMAN MORTURIES	Yes (1364)	Yes
6.	DIALYSIS UNIT MACHINE	Yes (17)	Yes
7.	SPIROMETER/ PULMONARY FUNCTION TEST MACHINE	Yes (15)	Yes
8.	STRESS DETECTING MACHINE	No	Yes
9.	BODY COMPOSITION MONITOR	No	Yes
10.	DIGITAL STETHOSCOPE WITH INTEGRATED ECG	No	Yes
11.	BIOFEED BACK MACHINE	No	Yes

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-X  Member-XI  Member-XII  P.O. 

Recommendation of ADG (Med) 

Recommended/Not Recommended 

1. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "ALCOHOL BREATH ANALYZER"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> Power source: Both 230 V AC and DC with 1200 MAH rechargeable battery Measurement method: By wet gas simulator Measuring Range: 0-400 mg/100 ml of BAC (Blood alcohol concentration) Minimum detection limit: 1 mg/100 ml of BAC, Accuracy: +/-5% at 80 mg/100 ml Operating temperature: -5 to + 50 degree C with relative humidity reaching upto 95@ at 40 degree Centigrade Mouth piece: One way round or square with ability to filter contaminants Validity of Calibration: Valid Calibration certificate to be provided by the manufacturer Indicator: Audio & Visual (LCD display) for test status, fault conditions, change in instrument status Self-diagnostic test: Automated on switching on Power on time: Less than 2 mins Facility of recall : Available Tests number available after full battery charge: 500 minimum Test result time : <30 seconds <p>STANDARD, SAFETY AND TRAINING</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years Should provide test results compatible to NABL/LIAC laboratories. Comprehensive training for technical staff and proper support services till familiarity with system. Should be IS certified or compatible with European standards where Indian standards are not available. Comprehensive warranty for Daily, Weekly, Monthly maintenance. <p>DOCUMENTATION :</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English. Including do s and don'ts in English/Hindi and test results from NABL/LIAC accredited laboratory. Validity of Calibration: Valid Calibration certificate to be provided by the manufacturer Log book with instructions for Daily, Weekly, Monthly maintenance. The job description of the hospital Technician, service engineer should clearly spelt out. 		

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 

Recommendation of ASB (med)



2. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "DEEP FREEZER WITH FACILITIES TO STORE/ KEEP 2 DEAD BODIES"

Specifications		Procedure suggested for trial by board of officers	Results expected/ Desired
A.	<ol style="list-style-type: none"> 1. Dimensions Approx. 7 x 3 ft +/- 0.5 ft 2. No. of cabinets 2 3. Input Volt 220 volts/ 50 Hz 4. Locking system External key locks 5. Refrigeration system Air cooled hermetically sealed 6. Separate control Temperature / Alarm / power control 7. Front opening door Stainless steel with external locks 8. Temperature Range 2°C to 8°C / -10°C to -20°C 9. Compressor ISI marked & CFC free Noiseless 10. Defrosting system Automatic 11. Internal lightening Waterproof fluorescent light 12. Alarms Low and high alarm 13. Evaporator Internal evaporator system 14. Internal drainage Yes 15. Wall type Double wall 16. Construction Corrosion resistant stainless steel 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	As per specifications
STANDARD, SAFETY AND TRAINING			
B.	<ol style="list-style-type: none"> 1. Chemically stable. Should be CFC free and environmentally safe refrigerant. 2. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years 3. Should be ISO certified or compatible with European standards where Indian standards are not available. 4. Comprehensive training for technical staff and proper support services till familiarity with system. 5. Should provide live demonstration of equipment to the end users. 	<p>OEM should submit an undertaking and documents in this regard.</p>	As per specifications
DOCUMENTATION :			
C.	<ol style="list-style-type: none"> 1. User/ Technical/ Maintenance manuals to be supplied in English/Hindi. 2. Log book with instructions for Daily, Weekly, Monthly maintenance. 3. The job description of the hospital Technician, service engineer should clearly spell out. 	<p>OEM should submit an undertaking and documents in this regard.</p>	As per specifications

Member-I

Member-II

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









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Recommendation of Addmtd

3. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "BMI MACHINE"

Appendix-1J (xxii)

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. Weighing capacity : 200 kg 2. Height capacity: 200 cm 3. Power supply: 230 V 4. Display: LED type 5. Display content : Height, Weight, BMI, Date, Time 6. LED Indicator to prompt start measurement: Yes 7. Result unit: In Kg/m² 8. Result mode: Led display + printed result 9. Weight accuracy: +/- 100 gm 10. Height Accuracy: +/- 0.5 cm 11. Display inference of results: Overweight / Underweight/ Normal : needed : Yes 12. Time & Date to be displayed on result slip: Yes <p>STANDARD, SAFETY AND TRAINING</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <ol style="list-style-type: none"> 1. Should provide live demonstration of equipment to the end users. 2. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years 3. Comprehensive training for technical staff. 4. Should be IS certified or compatible with European standards where Indian standards are not available. <p>DOCUMENTATION :</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <ol style="list-style-type: none"> 1. User/ Technical/ Maintenance manuals to be supplied in English/Hindi. 2. Log book with instructions for Daily, Weekly, Monthly maintenance. 3. The job description of the hospital Technician. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>



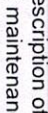
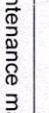
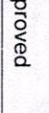
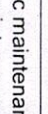
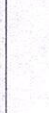


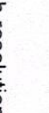
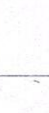
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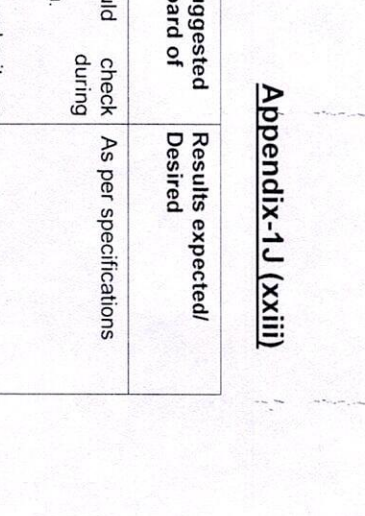
Recommendation of ADS (med)

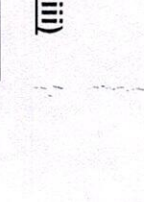
4. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "FIBRE OPTIC ENDOSCOPE"

Appendix-1J (xxiii)

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> Should have comfortable pistol grip. Objects close to the lens should appear clearly. Convenient on/off switch Should have suitable light source Continuous battery running life – minimum 2 hours. Simple one hand operation. Suitable commercial rechargeable battery. Battery should work at -10 to +50 degree C Should have suitable video jack output with video cameras. Should be able to be recorded and screened on to camcorders optionally Weight : Upto 7 Kgs +/- 10% 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <p>Insertion probe specifications :</p> <ol style="list-style-type: none"> Built in light source should enable illumination of minute details. Real 3.5 inch or bigger screen. Minimal image loss Video probe length minimum 3 metres Water, oil, scratch resistant tempered glass to protect the camera as well as maintain high resolution. Cable to maintain fixed adjustment until moved Should provide access diameter between 2 mm to 10 mm Viewing angle -45 degree and more Insertion probe lens should be water and oil proof 		
<p>C.</p> <p>Camera Specifications :</p> <ol style="list-style-type: none"> Image resolution – minimum 640 x 480 mm Focus of the camera should be 8 times or more. 		
<p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> Training of users in basic handling and basic maintenances 5 year warranty & 5 year comprehensive maintenance should be provided and availability of spares for the next 10 years All spare parts should be BIS approved 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>DOCUMENTATION :</p> <ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English/Hindi. Log book with instructions for Daily, Weekly, Monthly maintenance. The job description of the hospital Technician. Advanced maintenance tasks required shall be documented User, technical and maintenance manuals to be supplied in English language 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

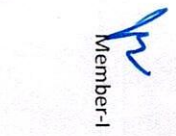
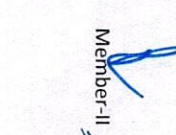

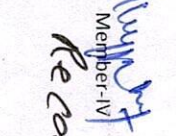
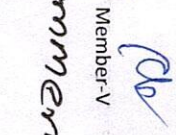
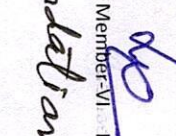
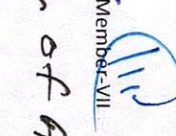
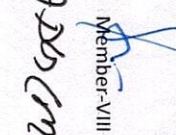
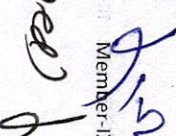
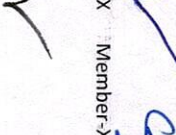
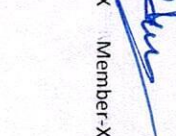
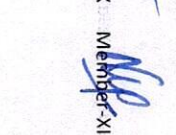
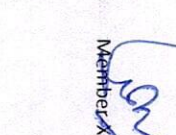
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Recommendation of ASG (Med) 

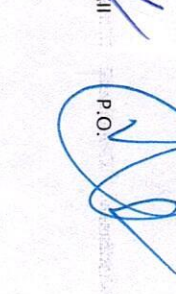
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5. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "HUMAN MORTUARIES"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. To be divided into columns 2. Should provide sufficient air condition to maintain temperature between 2-6 degrees 3. Each column to have minimum internal dimensions - Width 3165 mm, Depth: 2400 mm and Height (mm) : 1786 mm 4. To be rat proof 5. All the columns should have stainless steel finish 6. Walls of columns/ cabinet should be prefabricated with pre painted galvanized steel sheet and polyurethane foam (PUF sandwiched panels at least 60 mm thick. 7. Opening and locking mechanism: front opening hinged insulated doors lined with magnetic gasket handle and lock arrangement with keys in duplicate for individual dead bodies. 8. Embedded drainage system for cleaning of cabinet. 9. Standard accessories: <ol style="list-style-type: none"> a) Lamp - Vapor proof incandescent lamp - 40 W b) Temperature indicator plus controller: Electronic with digital display c) Audio visual alarm to indicate variation in temperature d) Refrigerating system: <ol style="list-style-type: none"> a) Refrigeration to be CFC free b) Voltage stabilizer of sufficient load rating c) Temperature to be maintained between 2-6 degrees C d) Power supply - 230 V/50 Hz 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
STANDARD, SAFETY AND TRAINING		
<p>D.</p> <ol style="list-style-type: none"> 1. Should provide live demonstration of equipment to the end users. 2. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years 3. Comprehensive training for technical staff. 4. Should be CE or USFDA approved. 5. CFC free refrigerant. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
DOCUMENTATION :		
<p>E.</p> <ol style="list-style-type: none"> 1. User/ Technical/ Maintenance manuals to be supplied in English/Hindi. 2. Log book with instructions for Daily, Weekly, Monthly maintenance. 3. The job description of the hospital Technician. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>













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Recommendation of ADG (med)

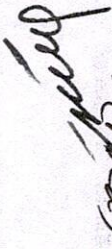
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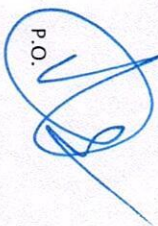
6. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "DIALYSIS UNIT MACHINE"

Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
<p>A.</p> <ol style="list-style-type: none"> 1. The structure of the machine should be of modular design. 2. It should have Control & Monitoring Screen with minimum 10" colored TFT/LCD Display (Screen). 3. Display should have screen with high clarity & easily readable 4. It should have Acetate & Bicarbonate dialysis facility. 5. It should have Sequential Ultra filtration facility. 6. It should have Arterial Venous & Transmembrane pressure monitoring facility. 7. Blood pump flow rate should be from 30 ml/min to 600 ml/min. 8. It should have Volumetric Ultrafiltration System. 9. In-line Bicarbonate mixing and solution preparation facility during dialysis 10. It should have Air bubble detector with Optical Sensor (to check the presence of blood in extracorporeal blood circuit) at Venous clamp. 11. It should have Blood leak Sensor which can differentiate between impurities and real blood. 12. Should accept different concentrate formulation, different Dialyzers and blood tubing sets. 13. It should have Dialysate flow rate range from 300ml/min. to 700ml/min. 14. It should have self-test facility during treatment. 15. Ultra filtration rate should be from 0 to 4.00L/Hr. 16. In house potable water supply is available & minimum 10microm size water filter assembly with cartridge shall be supplied with necessary attachments to make a functional unit. 17. Auto priming and rinsing of dialyzer and blood lines 18. It should have Hot Rinsing and Hot Chemical Disinfection facility (Temp. upto 80 deg. Celsius) with recirculation system. Also it should have various chemo Thermal cleansing and disinfection programs. Disinfection shall be possible with any disinfectant universally used in such cases i.e. the system shall be open system 19. Facility for disinfection History/Log. 20. It should have Ultrafiltration and Sodium Profiling facility. 21. Should work on AC mains without batteries. 	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII 















Recommendation of ADS (Spec)



P.O. 

Appendix-1J (xxvi)

<p>22. It should have Control & Monitoring Screen with minimum 10" colored TFT/LCD Display (Screen).</p> <p>23. Display should have screen with high clarity & easily readable.</p> <p>24. It should have Acetate & Bicarbonate dialysis facility.</p> <p>25. It should have Sequential Ultra filtration facility.</p> <p>26. It should have Arterial Venous & Transmembrane pressure monitoring facility.</p> <p>27. The structure of the machine should be of modular design.</p> <p>28. Blood pump flow rate should be from 30 ml/min to 600 ml/min.</p> <p>29. It should have Volumetric Ultrafiltration System.</p> <p>30. In-line Bicarbonate mixing and solution preparation facility during dialysis.</p> <p>31. It should have Heparin Infusion Pump with rate 1 to 10ml/min and Bolus Infusion upto 5ml/min.</p> <p>32. Automatic "self-test" prior to each HD treatment to confirm proper performance of operative and protective functions of the machine</p> <p>33. It should have Blood leak Sensor which can differentiate between impurities and real blood.</p> <p>34. Should accept different concentrate formulation, different Dialyzers and blood tubing sets.</p> <p>35. It should have Dialysate flow rate range from 300ml/min. to 700ml/min.</p> <p>36. It should have self-test facility during treatment.</p> <p>37. Ultra filtration rate should be from 0 to 4.00L/Hr.</p> <p>38. In house potable water supply is available & minimum 10micro/m size water filter assembly with cartridge shall be supplied with necessary attachments to make a functional unit.</p> <p>39. Auto priming and rinsing of dialyzer and blood lines.</p> <p>40. It should have Hot Rinsing and Hot Chemical Disinfection facility (Temp. upto 80 deg. Celsius) with recirculation system. Also it should have various chemo Thermal cleansing and disinfection programs. Disinfection shall be possible with any disinfectant universally used in such cases i.e. the system shall be open system</p> <p>41. It should have Ultrafiltration and Sodium Profiling facility.</p> <p>42. It should have in-built Battery backup of 15 to 20 minutes for complete Extra corporeal blood system during power failure.</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
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



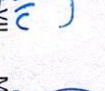

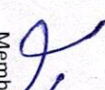

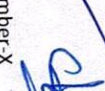
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Recommendation of ADGM (Med)

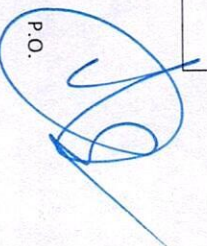
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Appendix-1J (xxvii)

<p>43. Non-Invasive patient blood pressure monitoring. 44. Must have the facility to up gradating to latest technology in future. 45. Power supply- 220VAC + 15%, 50Hz. 46. All Dialysis machines should have the following components: o) Arterial and venous line pressure monitors. p) Air bubble detector. q) Mixing proportion unit with bicarbonate dialysis facility, rate of dialysate delivery from 300 to 500 ml/ min or more. r) Conductivity meter. s) Blood leak detector. t) Dialysate temperature regulator with a range of 35–39°C. u) Volumetric adjustable ultrafiltration (UF) control. v) Safety devices: alarms, venous blood clamp. w) UPS backup, of up to 30 min is suggested for each machine. x) On-line blood volume monitor. y) On-line urea clearance. z) Sodium and ultrafiltration profiling. aa) Single needle dialysis. bb) Optical detector (online monitoring of dialysis) 47. On line clearance monitoring & Kt/V to assess adequacy of dialysis.</p>	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B. Alarm Specifications: 1. Range and sensitivity of the alarms should be set internally as default. 2. Operator should only be able to operate within the set range without being able to alter these settings, especially while HD is in progress. 3. Alarms should be visible from at least 2 meters 4. Alarms should be easily audible (70 dB). 5. All blood alarms (air detector, arterial, venous, blood leak, transmembrane pressure, blood pump torque) should automatically shut off the blood pump, clamp the venous return line, and stop UF, thus isolating the patient. 6. Equipment should be programmed to automatically switch to "safe mode," thus isolating the patient from the HD machine.</p>	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C. Dialyzer specifications: 1. Made of biocompatible, synthetic (e.g., polysulfone, polyacrylonitrile, polymethylmethacrylate) or modified cellulose membrane (e.g., cellulose acetate).</p>		

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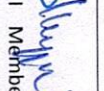

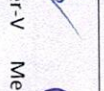


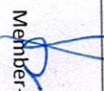
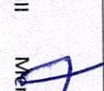
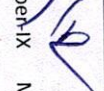
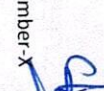

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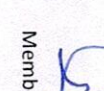
<p>D. Pressure specifications :</p> <ol style="list-style-type: none"> 1. Inflow (prepump) pressure monitor: Inflow pressure is 80 to -200 mmHg 2. Outflow (venous) pressure monitor: +50 to +250 mmHg. 3. Temperature : automatically limited between 35°C and 39°C 		
<p>E. STANDARD, SAFETY AND TRAINING:</p> <ol style="list-style-type: none"> 1. Should provide Training to End Users. 2. Should provide maintenance support for minimum 10 years and comprehensive warranty for minimum 5 years and also required support for spares and consumable for 5 years after warranty period is over. 3. Comprehensive training for technical staff. 4. Should be CE or USFDA approved. 5. OEM should quoted CMC charges separately for the next five years, after warranty period is over. 6. The Dialysis machine should be "Open system". The machine should run on the consumables from other make as well 7. OEM should quote the cost of the frequently used consumables such as 1) Dialyzers of different sizes, 2) AV Tubing set (universal), 3) AV Needles, 4) Disinfectant solution, and any other consumable to run the machine, in Price Schedule. 8. Demonstration compulsory. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>E. DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. Operating, Maintenance & Service manual with detail circuit diagram should be provided in English/Hindi. 2. Log book with instructions for Daily, Weekly, Monthly maintenance. 3. The job description of the hospital Technician. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

7. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "SPIROMETER/ PULMONARY FUNCTION TEST MACHINE"


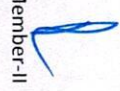

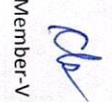


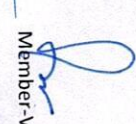

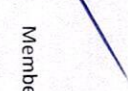
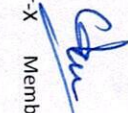
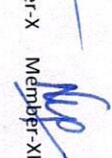
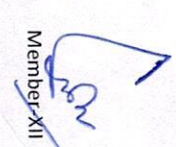
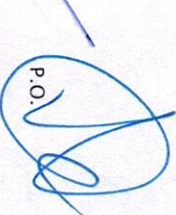
Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. Storage capacity 2. Keyboard 3. Communication 4. Dimensions 5. Power supply 	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<ol style="list-style-type: none"> 1. 1000+ studies 2. Alphanumeric LCD touch screen 3. USB to printer and PC, RS232, Optional: Bluetooth to PC 4. 5.75" x 3.25" x 4.0" +/-2" 5. 2 x 1.5 DC Alkaline or NIMH batteries. With battery backup for at least 2 hours 		

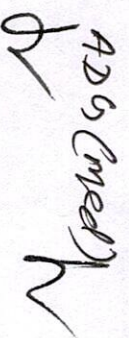
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Recommendation of ADS (med) 

P.O. 

6.	Weight 9 oz (250 g)	
7.	Parameters Measured should include a) Spirometry and flow volume parameters b) Maximum Ventilation Volume c) Lung Volumes and subdivisions d) Pre and Post bronchodilator comparisons e) Real time flow volume and volume traces on computer screen.	
f)	Should include precision pneumatograph	
g)	Should meet criteria of ATS standards	
h)	Parameters should be measured with high accuracy and reproducibility and accuracy not effected with humidity, moisture and water droplets	
i)	Should incorporate Electronic barometer and temperature sensor.	
j)	Should facilitate overlaying of previous test curves for comparison	
k)	Capability to select and modify predicted equations	
l)	Facility to interface for desktop/Laptop computer	
m)	System software should be based on the latest Micro Soft windows operating system	
n)	Ethnic correction Selectable – % Actual, Caucasian, Hispanic, Afro-American	
o)	Language Selectable – English	
p)	The assemblage should be portable.	
q)	Laptop Computer (@ GB RAM, at least 14 inch TFT Screen, USB Ports, DVD RW Hard Disc Drive (1x320 GB)	
20.	Assembled with good quality deskjet/laserjet printer and UPS	OEM should submit an undertaking and documents in this regard.
21.	Should be supplied with computer interfacing package cables, software, 2/3 litre, calibration syringe as per requirement of the instrument, standard accessories and strong carrying case	As per specifications
22.	Additional accessories : Pneumotach screens (minimum 05 Nos), Pulmonary filters,(minimum 50), Disposal mouth piece (minimum 250 nos) and nose clips.	
B.	Measurement Scale :	OEM should submit an undertaking and documents in this regard.
1.	Flow range 0-16 L/sec	As per specifications
2.	Volume 0-10 L	
3.	Accuracy Error less than 3%	
4.	Dynamic flow resistance <1.5 cm H ₂ O/L/sec @ 14 L/sec	









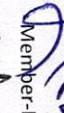
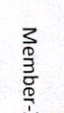



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Recommendation of ADS (med) 

<p>C. STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide warranty for minimum 5 years and comprehensive annual maintenance support for minimum 5 years after completion of warranty period. Comprehensive training for technical staff. Should conform with ISO/CE /USFDA. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>D. DOCUMENTATION :</p> <ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English/Hindi. Log book with instructions for Daily, Weekly, Monthly maintenance. User manual should contain job description of the hospital Technician. 		

8. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "STRESS DETECTING MACHINE"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> Should have accuracy with authorized algorithm Should be able to measure minute to minute variation in heart rate, peripheral perfusion, respiratory rate along with pulse waveforms. Device to be able to measure autonomic nervous system and stress status as per minute variation in heart rate. Should have data storage and preloaded software with digital monitor output Should have smooth and simple measurement taking not more than 5 minutes. Dimension of the main body unit 140 mm width x 135 mm depth x 35 mm height (+/- 5 mm) It should have integrated photo plethysmography probe to connect to patient and to process output Should have USB to RS 232 cables to connect software and hardware Should have power adapter with range of 100-240 V, 0.4 A and 50-60 Hz 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B. STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide maintenance support for minimum 5 years and warranty for minimum 3 years Comprehensive training for technical staff. Should be ISO, CE or USFDA approved. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C. User/ Technical/ Maintenance manuals to be supplied in English/Hindi.</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII  P.O. 

Recommendation of Adb (med)

9. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "BODY COMPOSITION MONITOR"


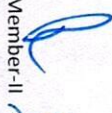

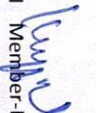
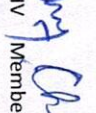
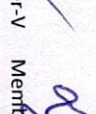
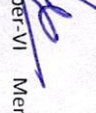
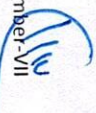

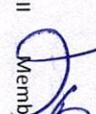
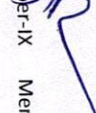
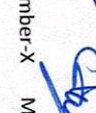
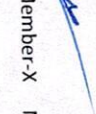
Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <p>1. Measurement method: SME (Simultaneous Multi Frequency - Bio Impedance Analysis), DSM (Direct Segmental Measurement - Bio Impedance Analysis) Measuring Parameter (For Adult/Child)</p> <p>2. Measurement Parameters:</p> <ul style="list-style-type: none"> a) Body Weight b) BMI (Body Mass Index) c) Skeletal Muscles d) Body fat e) Resting metabolism f) Body age g) Visceral Fat h) Display - TFT LCD Touchpad i) Resolution of Display - 800 x 480 pixel j) Applied rating current (micro ampere) - 250 k) Measurement Frequency used - 5KHz, 50KHz, 250KHz l) Weight of equipment - Approx 12 kilogram. m) Connectivity interface - USG, Bluetooth, Wi-Fi n) Measurement Type: Reactance, Whole body Phase Angle, Segmental Phase Angle (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Impedance. o) Number of Impedance Measurements - 30 p) Testing height range - <math>\leq/>= 250</math> centimeters. q) Testing weight range <math>\leq/>= 250</math> kilogram r) Testing year range - 6 years to 99 s) Operating Temperature - + 10 degree C to +50 degree C t) Data Storage (Measurement Record) - 100000 u) Voltage - 100 - 240V <p>B. STANDARD, SAFETY AND TRAINING</p> <ul style="list-style-type: none"> 1. Demonstration to the users along with training of Staff (Medical, Paramedical, Technicians) 2. Minimum 5 years warranty with quotation of rates for next 5 years to be provided 3. Should be ISO, CE or USFDA approved. <p>C. DOCUMENTATION : User/ Technical/ Maintenance manuals to be supplied in English/Hindi.</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>


Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII  P.O. 

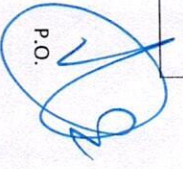
Recommendation of ADs (med)

10. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "DIGITAL STETHOSCOPE WITH INTEGRATED ECG"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. Should able to convert an acoustic sound to electronic signals. 2. Electronic Signals can be further processed and digitalized to transmit to a personal computer/ Laptop. 3. Should have ability to hear, record and transmit. 4. Records clearer sounds through patients clothes. 5. Diaphragm single piece tunable. 6. Accurate results. 7. Make - Stainless steel chest piece single sided. 8. Reliance on technology by eliminating superfluous tests quality, dimensional accuracy, durability and many more qualitative features. The clip stored in the cloud can be transferred anywhere in the world for 2nd opinion. 9. Model inclusions: a) Electronic Stethoscope and Digital ECG, b) Earpiece, Tubing etc. 10. Portable easy to use 11. Integrated ECG leads. 12. Saves time, costs and enhances the patient experience. 13. Instantaneous evidence-based detection at the point-of-care 14. Mobile App displays PCG & ECG waveforms on any smart device. 15. Smart amplification & noise cancellation for crystal clear heart sounds. 16. Eliminates wires, gels and conductive pads 17. Enables superior auscultation even in noisy environments. 18. Allows real-time collaboration with remote specialists & Tele-medicine organizations. 19. Available for Android and IOS smart devices. Free download from the App Store. 20. High fidelity sounds are shown as real-time waveforms on any smart device 21. Bi-directional communications between HD Steth and App 22. Record, save, review, replay, share, generate & save reports 23. Records waveforms and patient data which can be easily: <ol style="list-style-type: none"> a) Print as an Auscultation Report b) Email to a specialist for Tele-medicine consultation. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>





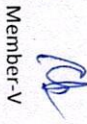
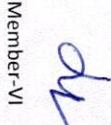


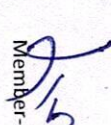
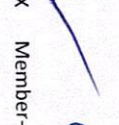
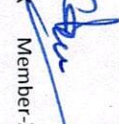


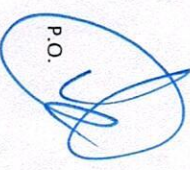
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Recommendation of ADS (med) 

P.O. 

Appendix-1J (xxxiii)

<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. Should have minimum 5 year warranty. 2. Should provide maintenance support for minimum 5 years. 3. Comprehensive training for technical staff. 4. Should be ISO, CE or USFDA approved. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>DOCUMENTATION :</p> <p>User/ Technical/ Maintenance manuals to be supplied in English/Hindi.</p>	<p>Board should check physically during demonstration.</p>	<p>As per specifications</p>















Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII  P.O. 

Recommendation of ADS (med).



11. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "BIOFEED BACK MACHINE-"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. It should monitor-EEG (alpha), EMG, Pulse, Temperature, Respiration, GSR, ECG & HRV (optional) 2. It should have continuous graphical display of all above parameters. 3. It should have Simultaneous and Singular Visual feedback through Digital Display and colour bar graph. 4. It should have Audio feedback through Head Phone or Speakers. 5. It should have Facility to play Audio of your choice for relaxation. 6. It should have Facility to play visual of your choice on the monitor screen for relaxation. 7. It should have Storage of Patient data for review. 8. It should have Plotting of graph depicting patient's progress for every parameter. 9. It should have User definable event marker. 10. It should have Facility for Video & Audio recording. 11. It should have Number of Channels:6 12. It should have A/D Conversion: 14-bit A/D 13. It should have Sampling Rate: 256 HZ 14. Sensitivity: 1 to 1500 μV/mm 15. It should have Low Pass Filter: 0.1,0.3, 0.5, 1,3,5,7 HZ 16. It should have High Pass Filter: 0.1,0.3, 0.5, 2, 10, 15,35, 70, 99HZ 17. It should have Sweep Speed: 15,30,60,100 mm/sec 18. It should have Notch Filter: 50 HZ 19. It should have Input Impedence: > 10 M ohm 20. It should have CMRR: > 80-85 db 21. It should have Power: 220V AC/12V, 2.2AH 22. It should have Battery Backup: Approx 3 Hrs 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. Should be FDA, CE, or BIS approved product. 2. Manufacturer should have ISO certification for quality standards 3. Comprehensive training for lab staff and support services till familiarity with the system on site. 4. Comprehensive warranty for 2 years and 5 years CMC after warranty 5. Certified to be compliant with Electrical Safety Standard for Medical Equipment- IEC-60601-1-1 6. 13R equivalent BIS OX International standard for electrical safety 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII  P.O. 

Recommendation of ADG (mpd)

Appendix-1J (xxxv)

C. DOCUMENTATION :	OEM should submit an undertaking and documents in this regard.	As per specifications
<ol style="list-style-type: none"> 1. User/Technical/Maintenance manuals to be supplied in English 2. Certificate of calibration and inspection. 3. List of Equipment available for providing calibration and routine Preventive Maintenance 4. Support: as per manufacturer service/ maintenance manual. 5. List of important spare parts and accessories with their part number and costing. 6. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist 7. The job description of technician clearly spelt out. 		

- | | | | | | |
|--|--|---|--|--|--|
| <p>(Dr. J Chatopadhyay)
BSF
Member-I</p> | <p>(Dr. Rohit Shyam Bobil)
CMO(SG) (ENT)
RH, ITBP, Gr. Noida
Member-II</p> | <p>(Dr. Saqub Khan) CMO
(OG)
(Radiology) CRPF,
Member-III</p> | <p>(Dr. R Kuppu Samy)
CMO(SG)
(Paediatrics) CRPF
Member-IV</p> | <p>(Dr. Chandrima Kar)
Comdt /Spl. Gr.I &
(Obs Gyn), CRPF
Member-V</p> | <p>(Dr. Anurag Jain)
Contractual, Spl
(Orthopaedics),
CRPF Member-VI</p> |
|--|--|---|--|--|--|

- | | | | | | |
|--|---|--|--|---|---|
| <p>(Dr. Rakesh Tiwari)
CMO (SG)
(Anaesthesia),
ITBP Member-VII</p> | <p>(Dr. Shaifali Gupta)
Comdt /Spl. Gr.I
(Ophthalmology), ITBP,
Member-VIII</p> | <p>(Dr. Rajkamal Nimesh)
Comdt /Spl. Gr-I
(Surgery), ITBP,
Member-IX</p> | <p>(Dr. Gairi Devi)
CDS (SG), (Dental),
SSB
Member-X</p> | <p>(Dr. Neeraj Kumar)
CMO, (Medicine),
ITBP
Member-XI</p> | <p>(Dr. Soumyesh Ghosh)
Comdt./Spl. Gr.I
(Pathology), ITBP
Member-XII</p> |
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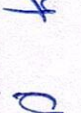

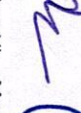


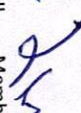
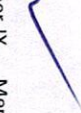

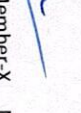
Recommendation of ADG (med)

(Dr. A C Bhargava)
IG (Med.), RH, ITBP Gr. Noida
Presiding Officer

APPROVED / NOT APPROVED

DIRECTOR GENERAL
BORDER SECURITY FORCE

S.N	NAME OF THE EQUIPMENT	IS IT AVAILABLE IN PET (AS PER 100 BADED). IF YES THEN MENTIONED SL.NO. OF PET	QRS AVAILABLE ON NOT
1	ELECTROENCEPHALOGRAM/ EEG MACHINE	Yes (200)	No
2	CONTINUOUS BLOOD PRESSURE MONITORING SYSTEM / AMBULATORY	No	No
3	BRIEF PULSE ELECTRO CONVULSIVE THERAPY	Yes (1055)	No
4	HOLTER ECG MACHINE / AMBULATORY ECG MACHINE	Yes (6)	No
5	TMT MACHINE (COMPUERERIZED TREAD MILL)	Yes (7)	No
6	STANDING BP APPARATUS	Yes (412)	No
7	CARDIAC MONITOR	Yes (2)	No
8	RTMS: REPEATITIVE TRANSCRANIAL MAGNETIC STIMULATION MACHINE."	No	No
9	4 Polysmngography (Sleep Study)	No	No
10	COMPREHENSIVE MONITORING & SURVEILLANCE SYSTEM FOR PSYCHIATRIC PATIENT SAFETY & SECURITY	No	No
11	AUDIO-VEDIO LED PANEL/SCREEN FOR PSYCHO-EDUCATION SESSIONS	No	No
12	PSYCHOTHERAPY RECLINER CHAIR- POWER LIFT & INFINITE POSITION	No	No
13	COMPREHENSIVE PSYCHOLOGICAL ASSESSMENT & TESTING TOOLS/ISCLAES KIT	No	No

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 















Recommendation of ADG (med)



Appendix-2J (ii)

1. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "ELECTROENCEPHALOGRAM/ EEG MACHINE"













Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. Should have at least 32 bit resolution with montage bar 24 EEG, 8 2. Bipolar (2 EKG & 6 DC Channels) 3. Real time acquisition and monitoring 4. EEG amplifier with 32 bit channels 5. Built in intercom and microphone 6. Built in 3 axis position sensor 7. Synchronous video monitoring with dual camera mode 8. Connectivity with LAN interface /Wifi interface 9. Internal Lithium Ion battery 10. Upto 4K sampling frequency 11. 8 bit optional trigger input 12. External battery pack for ambulatory use. 13. Various options for EEG Scrolling 14. Resolution independent user interface 15. Coherence, FFT Graph and tabular data, 16. Facility to mark event and write comment in analysis mode. 17. Use define photic stimulate protocols. 18. Long distance modular amplifier design with flexibility and reliability 19. Advanced graphic Brain mapping with spectral array (CSA) & Density 20. Spectral array (DSA) 21. Online impedance check with display of numeric values of all 22. electrodes 23. Split screen facility to study and event/montage carefully during 24. Acquisition 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <p>Software Specifications :</p> <p>Software installed should have following outputs and applications</p> <ol style="list-style-type: none"> 1. EEG record and review' 2. Brain mapping 3. Real time seizure detection' 4. Real time spike detection 5. Source localization 6. Cerebral function monitoring 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII  P.O. 

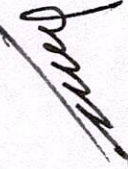
Recommendation of ADS (med)

Appendix-2J (iii)

<p>C. Technical Specifications :</p> <ol style="list-style-type: none"> 1. No of channels : 32 2. ND Conversion : 16 bit 3. Sensitivity: 1 uV/mm and 1000 uV/m² & user definable 4. Low Pass Filter : 0.1, 0.3 & 5 Hz 5. High Pass Filter : 15, 30, 70 Hz & user definable 6. Notch Filter: 50/60 Hz ON/OFF 7. Sweep speed: 7.5, 15, 60 & 60 mm/sec. 8. CMRR: > 110 db 9. Flash Rate : 1 to 60 Hz 10. Input Impedance: >20 M Ohm 11. Noiselevel : < 1 uv 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>D. STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. Training of users in operation and basic maintenance shall be provided. 2. Advanced maintenance tasks required shall be documented. Should provide maintenance support for minimum 5 years and warranty for minimum 3 years 3. Comprehensive training for technical staff. 4. FDA / CE; approved The company should be ISO certified and products should be ISI mark. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>E. DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. User/ Technical/ Maintenance manuals to be supplied in English/Hindi. 2. Maintenance manual detailing complete maintaining schedule 		

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII 














Recommendation of A DG (Med)



P.D. 














2. QPS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "CONTINUOUS BLOOD PRESSURE MONITORING SYSTEM / AMBULATORY"

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A. To be supplied with:</p> <ol style="list-style-type: none"> 1. A computer system with a minimum of 16 GB RAM (DDR2) 3 2. 320 GB Hard Disk (SATA) 3. DVD Writer Combo 4. Multimedia keyboard 5. USB connectors 6. Laserjet Black and White Printer 7. Suitable Trolley for Mounting 8. Monitor: 17" TFT Monitor colour 9. Backlit graphical LCD with multi-language men 10. Easy menu guidance with two control buttons 11. Programming and storage upto four individual measurement programs 6. 8. USB interface for data transmission to a PC 9. Light weight-upto 250gms (Including battery) 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B. Technical Specifications :</p> <ol style="list-style-type: none"> 1. Allows both in clinic and home BP monitoring. 2. Measurement Range Systolic 60 - 280mmHg (min. division: 1mmHg) Diastolic 40 - 160mmHg (min. division: 1mmHg) Pulse 30-200bpm (min. division: 1bpm) <p>Accuracy</p> <ol style="list-style-type: none"> a) Pressure $\pm 3\text{mmHg}$ or $\pm 2\%$ measurement, whichever is greater b) Pulse Rate $\pm 5/\text{per min}$ c) Weight 0.5lbs (215g) d) Data Output RS-232C (direct) e) Micro Pump Display Range 0 - 320mmHg f) Measurement Method: Auscultatoric and Oscillometric g) Adult Cuffs: for left and right arms each (all possible sizes) 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

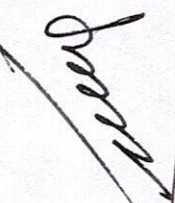
Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 

Recommendation of AD&C (Med)

<ol style="list-style-type: none"> 3. Additional pediatric cuffs for both arms (all possible sizes) 4. Pressurization Internal 5. Temperature & Humidity Range Operation 50°F to 104°F (10°C to 40°C), less than 85%RH 6. Recording and storage of upto 400 measurement 7. Facility for the patient to take additional measurements at any time 8. Storage & Transportation: -4°F to 131°F (-20°C to 55°C), less than 95%RH 9. Clock Display 24 hour (1997-2096 and auto leap year setting 10. Recording over 48 hours 11. Memory Capacity minimum 300 measurement 12. Maximum Power Source Three AA Alkaline or NiCd 13. Dimensions 2.8"W x 1.1"H x 3.9"D 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C. STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. US certification if IS standards not available 2. Manufacturer must quote for 05 years comprehensive warranty including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation 3. OEM should arrange to provide demonstration of the instrument. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>D. DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. User/ Technical/ Maintenance manuals to be supplied in English/Hindi. 2. OEM should provide log book for monthly and annual maintenance 3. Documents endorsing clause by clause commentary on all technical details to be provided 		

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII  P.O. 














Recommendation of ADGs (med)





3. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "BRIEF PULSE ELECTRO CONVULSIVE THERAPY"

Appendix-2J (vi)

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> Should have AUTO Stimulus Voltage Should have Auto Impedance Check The unit should have Parameter Display on LCD/LED Should provide Output Display in joules & millicolomb and EEG-ECG Monitoring on Thermal paper LCD /LED Display for stimulus voltage & Time Output voltage 90 to 190 V Manual, timer & Ectonus Modes Fitted in brief case Timer 0.1 to 5.9 sec. in step of 0.1 sec Cerebral Stimulation 0 to 40 volts Ultra isolation transformer for patient safety. All the accessories to make equipment functional as per specifications should be supplied The unit shall be capable of being stored continuously in ambient temperature of 0 -50 degree C and relative humidity of 15-90% Power Supply: Power input to be 220-240VAC, 50Hz fitted with Indian plug UPS of suitable rating with voltage regulation and spike protection for 60 minutes back Up. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> Should be FDA, CE, or BIS approved product. Manufacturer should have ISO certification for quality standards Comprehensive training for lab staff and support services till familiarity with the system on site. Comprehensive warranty for 2 years and 5 years CMC after warranty Certified to be compliant with Electrical Safety Standard for Medical Equipment- IEC-60601-1-1 13R equivalent BIS OX International standard for electrical safety Should be ISO, CE or USFDA approved. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>DOCUMENTATION :</p> <ol style="list-style-type: none"> User/Technical/Maintenance manuals to be supplied in English Certificate of calibration and inspection. List of Equipment available for providing calibration and routine Preventive Maintenance Support. as per manufacturer service/ maintenance manual. List of important spare parts and accessories with their part number and costing. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist The job description of technician clearly spelt out. 		

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 













Recommendation of ADs (med) 

R.D. 

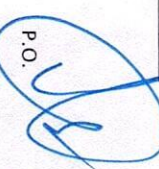
Appendix-2J (vii)

4. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "HOLTER ECG MACHINE / AMBULATORY ECG MACHINE"

Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
<p>A.</p> <ol style="list-style-type: none"> Recorder should be compact and lightweight. Weight should not be more than 250gms including battery. Should have sampling frequency of 8000 Hz Should record realtime 12 channel ECG. Should record 3 Channels with 5/7 lead patient cable or 12 channels with 10 lead patient cable. Should have 1 GB removable Compact flash card & capable of storing 24/48 hours of ECG. Data should be transferred /analyzed via SD card reader. Should have LCD display to check pre hook –up ECG quality. Should have an option of selecting the resolution of recording. The maximum resolution of the recording should be 1024 Hz with storage rate of 1024 Hz: 12 bit. Should have Event Marker / Patient Marker button on the recorder Should use single AA battery to record upto 48 hrs of ECG. Should be defibrillator protected. System should print all the Holter Test Report on Laser Printer on ordinary paper & not on Thermal Chart paper. Recorder should be supplied with 10 Lead patient cable to measure all 12 leads <p>STANDARD, SAFETY AND TRAINING</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide maintenance support for minimum 5 years and warranty for minimum 3 years Comprehensive training for technical staff. Should be ISO, CE or USFDA approved. <p>DOCUMENTATION :</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>User/ Technical/ Maintenance manuals to be supplied in English/Hindi.</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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Recommendation of Adhmed

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5. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "TMT MACHINE (COMPUTERIZED TREAD MILL)"

Appendix-2J (viii)

Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
<p>A.</p> <ul style="list-style-type: none"> a) Configuration 12 lead ECG. b) Number of leads: minimum of 12 leads ECG. Protocols c) Computerized Display <ul style="list-style-type: none"> ➤ Simultaneous display of 12 lead ECG and heart rate ➤ BP stage by stage time ➤ Recovery time ➤ Tread mill speed ➤ Grade d) System: Should be computer based. e) Protocols: Standard programmable protocols f) Analysis: S- T level, slope, trend and arrhythmia g) Printer: Laser-jet printer and built in thermal printer. h) Treadmill <ul style="list-style-type: none"> ➤ AC/DC motor driven with at least 2-2.5hp ➤ Emergency stop button ➤ Speed range: 0-5-12mile/hr ➤ Elevation range: 0-25% ➤ Drive system ➤ At least 22"x63", shock absorbing, lubricated, low-profile, self-aligned running belt ➤ Safety handrails ➤ Display of speed and grade in treadmill also ➤ NIBP measurement included e) Standard accessories: Patient harness f) Additional accessories <ul style="list-style-type: none"> i. Wireless Patient Cable ii. ECG data export by modem & fax 9. g) Power Supply: 230V/50HZ h) Extra accessory chest lead and cable, UPS with power/ voltage stability 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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Recommendation of ADN (med)










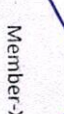
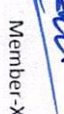

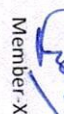

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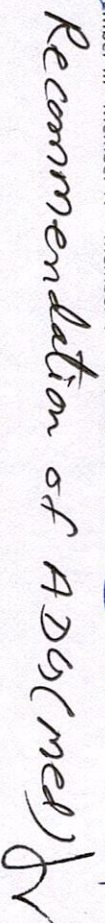
Appendix-2J (ix)

STANDARD, SAFETY AND TRAINING		As per specifications
<p>B.</p> <ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years Comprehensive training for technical staff. Should be IS certified or compatible with European standards where Indian standards are not available. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
DOCUMENTATION :		
<p>C.</p> <ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English/Hindi. Log book with instructions for Daily, Weekly, Monthly maintenance. The job description of the hospital Technician, 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

6. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "STANDING BP APPARATUS"














Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
<p>A.</p> <ol style="list-style-type: none"> Should be portable type, stand model. Should have a measuring range from 0 to 300 mm Hg. Should be provided with adult arm cuffs of size medium, large and pediatric cuff The control valve should have a thumb control device The manometer scale markings and graduations should be engraved or etched and filled with pigments and it should meet the requirements of boil test The internal diameter of the manometer glass tube should be 4.1 ±0.1mm and the thickness not less than 2mm Plastic parts, if any used should not crack, flake, peel or disintegrate during normal use. The inflating rubber bag should be capable of withstanding an internal pressure of 450mmhg without leaking. The inflating bulb should be soft and should not have any joints or ridges. The fastening arrangements of the cuff should be of hook and loop type The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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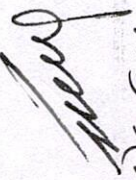
Recommendation of ADS (med) 

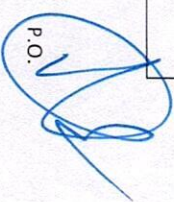
Appendix-2J (x)

<p>12. The rubber tubes used should have an internal diameter of 3±0.5mm and the external diameter should not be less than 8mm.</p> <p>13. The housing case should be of robust design. It should have press to release lock.</p> <p>14. It should have metal hinges. The tube should be secured with metal screws and clamps.</p> <p>15. It should have mechanism to hold the lid in right angles and should prevent accidental dropping.</p> <p>16. All parts should be replaceable in case of breakage.</p> <p>17. A cleaning brush to clean the manometer tube and a set of spare washers may be provided with each unit.</p> <p>18. Should be mounted on good quality wheels.</p>		
<p>STANDARD, SAFETY AND TRAINING</p> <p>1. Should provide live demonstration of equipment to the end users.</p> <p>2. Should provide maintenance support for minimum 10 years and warranty for minimum 5 years</p> <p>3. Should be ISI certified or compatible with European standards where Indian standards are not available.</p> <p>4. Should provide 5 year replacement warranty for plastic parts.</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>DOCUMENTATION :</p> <p>1. User/ Technical/ Maintenance manuals to be supplied in English. Including do's and don'ts in English/Hindi.</p> <p>2. Validity of Calibration: Valid Calibration certificate to be provided by the manufacturer</p> <p>3. Log book with instructions for Daily, Weekly, Monthly maintenance.</p> <p>4. The job description of the hospital Technician, service engineer should clearly spelt out.</p>	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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Recommendation of ADS (Med)
















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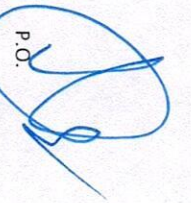
7. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "CARDIAC MONITOR"

Appendix-2J (xi)

S.No.	Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
1.	Electrically Operated with Built in Rechargeable Battery (with at least 4-6 hrs. of continuous operation under full-charge condition)	Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.	As per specifications
2.	It should be modular / PODS for easy up gradation.		
3.	Compact and portable, High-resolution backlit TFT screen / LED display, minimum 15 inches display with 8 channels		
4.	Simple in design		
5.	The monitor should not require any, lengthy start-up procedure or calibration. It should be ready to monitor as soon as on / off switch is pressed		
6.	Should be capable of Monitoring Heart rate, SPO2, NIBP, ECG, Temp, RR and IBBP x 2 (Upgradable to 4), NMT, BIS/ENTROPY.		
7.	Carbon dioxide, Respiratory gas, Anaesthetic agent, MAC monitoring either on multi parameter monitor or on ventilator screen / Workstation screen		
8.	ECG Monitoring Specifications:- 1. 3 Lead (I, II, III), 5 Lead (I, II, III, aVR, aVL, aVF& V) mode 2. Dual Trace with ability to freeze one of the waveforms 3. Selectable Gain for ECG 4. Display of HR with facility for alarm setting (Low & High) 5. Heart rate accuracy +/- 5 bpm 6. Lead off and cable fault alarm 7. In built Cautery and Defibrillator protection. 8. Heart rate detection from ECG/Pulse Auto change. 9. Arrhythmia Detection		

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 

Recommendation of Ady med

P.O. 

Appendix-2J (xii)

<p>8. SpO2:-</p> <ol style="list-style-type: none"> 1. It must use Nellcor /Masimo technology to measure oxygen saturation for accuracy during motion artifacts, low perfusion states like shock, bradycardia and hypothermia. 2. Display of pulse strength, plethysmograph & SPO2 values 3. Pitch variation with change in oxygen saturation. 4. SPO2 range 50-100% 5. Accuracy 100-80% (± 2 digits); 79-50% (\pm digits) 	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>9. Capnograph:-</p> <ol style="list-style-type: none"> 1. Side stream/ Microstream 2. ETCO2 range: 0-99 mm Hg, 0-10% 3. Capnogram display 4. Averaging: breath to breath, 4 breaths or 8 breaths 5. Accuracy: ± 3 mmHg in 00 to 40 mmHg range & $\pm 8-10\%$ in higher range 6. Reaction time: <500 ms 150 ml/min 		
<p>10. Respiratory Gas Monitoring / Inhalational Anesthetic Agent Monitoring:-</p> <ol style="list-style-type: none"> 1. It should automatically identify the inhalational gas / agent / 2. Numeric display of fractional inspiratory and expiratory concentrations of O2, CO2, N2O and anaesthetic agents — halothane, enflurane, isoflurane, sevoflurane, desflurane 3. It should have facility for MAC monitoring and MAC age correction 		
<p>11. Non Invasive Blood Pressure Monitoring :-</p> <ol style="list-style-type: none"> 1. of systolic, diastolic & Mean pressures 2. Modes: Manual, STAT & automatic (delay 2min-90min) 3. Range: 20-255 mm of Hg 4. Accuracy of ± 5 mm of Hg 5. Selectable adult, paediatric and Neonatal functions with separate inflation and alarm settings 		

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Member-XII

P.O.

Recommendation of ADG (model)

Appendix-2J (xiii)

<p>12. Invasive Blood Pressure Monitoring :- 1. Simultaneous two IBP channels 2. Display of systolic, diastolic & mean pressures with waveforms 3. Zeroing 4. IBP range from 10-300 mmHg</p>	<p>Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>13. RESPIRATION:- 1. Through impedance pneumography method for Adult, Pediatric & Neonatal patients</p>		
<p>14. Temperature:- 1. Simultaneous monitoring of 2 channels 2. Dual Temperature Display (T1 & T2) 3. Temperature range: 12°C to 43°C</p>		
<p>15. Depth of Anaesthesia Monitoring module:- 1. BIS/Entropy with all accessories & 50 sensors (40 adult, 10 paediatric)</p>		
<p>16. NMT Monitoring:- 1. Neuromuscular Transmission Monitoring in the primary monitor with all accessories. Display should be in the primary monitor with required accessories.</p>		
<p>17. Facility for upgradation with separate modules for-Minimally Invasive Continuous Cardiac Output, thermolulution technique Cardiac Output, and EEG by just adding the Interchangeable Modules.</p>		
<p>18. TREND FACILITY:- 1. Should have 24 hours graphical and numerical trend with split screen facility of all parameters with at least 15 critical alarms summary. 2. Should be able to monitor and display all parameters in single screen. 3. NIBP trend: 240 Readings tabular 4. Facility to store snapshots during critical events for waveform review at a later stage.</p>		

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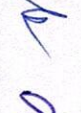
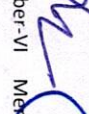
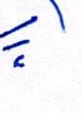


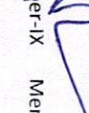

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Recommendation of A.D.M.C.

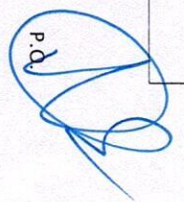
Appendix-2J (xiv)

19.	<p>ALARMS:-</p> <ol style="list-style-type: none"> 1. Should have graded and colour coded audio-visual alarm for all parameters. 2. It should have clear alarms and user information as text messages. It is essential that unit should prompt user for corrective action rather than giving only alarm with no diagnostic message <p>Environmental Factors:-</p> <p>The unit shall be capable of operating continuously in ambient temperature of 10- 40 deg C and relative humidity of 15-90%.</p>		
20.	<p>Power Supply:-</p> <p>Power input to be 220-240 VAC, 50Hz fitted with Indian plug</p>		
21.	<p>ACCESSORIES :-</p> <ol style="list-style-type: none"> 1. The necessary accessories to make it functional on Neonates, Pediatric and Adult patients should be quoted as "Standard Accessories." 2. ECG 3 lead Cable X 2 3. ECG 5 lead Cable X 2 4. SpO2 interconnecting cable x2 numbers 5. SpO2 Probes (Neonatal, Paediatric & Adult) two each. (Total of 6 probes) 6. NIBP Cuffs (seven Sizes): neonate, infant, paediatric 2 sizes, adult (small, average, extra large). (wide range of sizes from 2,5 to 16 cm widths) x 2 each size. 7. IBP cable X 2 8. IBP pressure Transducers (six disposable) 9. Filter cartridges (Water traps) x 20 & Sampling tubings for respiratory gas monitoring X 50 10. Temperature Probes (Core & Skin) one each. 12. Accessories for neuromuscular transmission monitor-01 set 		
22.			









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Recommendation of ADG (med)



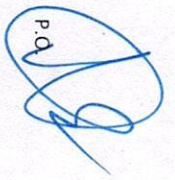
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23.	Equipment shall operate on 220-240 V, single phase, 50 Hz electric supply. The necessary protective relaying / circuitry shall be there with the machines. The mains supply voltage variation may be max. $\pm 10\%$ and frequency variation maximum $\pm 3\%$.		
STANDARD, SAFETY AND TRAINING			
B.	<ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. The equipments shall be having warranty of three years. The warranty and CMC shall cover the list of the spare parts and the rate of which valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise. The manufacturer has to ensure that all the required spares and services are available during the period of CMC and 2 years after the contract period of eight years. Should be ISI certified or CE certified or compatible with European standards where Indian standards are not available. 	OEM should submit an undertaking and documents in this regard.	As per specifications
DOCUMENTATION :			
C.	<ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English. Including documents and don'ts in English/Hindi. Validity of Calibration: Valid Calibration certificate to be provided by the manufacturer 	OEM should submit an undertaking and documents in this regard.	As per specifications

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 

Recommendation of A.D.G.(meel)



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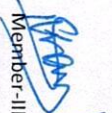






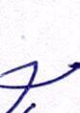


Appendix-2J (xvi)
8. ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "RTMS: REPEATITIVE TRANSCRANIAL MAGNETIC STIMULATION MACHINE."

Sr.No.	Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
A.	<ol style="list-style-type: none"> 1. Instrument should have multiprocessor technology and programmable stimulation morphology. 2. It Should have TFT 8,4"Display for an easy functions' selection with 5 buttons and a multifunctional knob. 3. It should have upgrade capabilities to advanced versions. 4. It should have PC interface for protocol management. 5. It should have Biphasic, Monophasic and Sinusoidal (only UltraFast model) waveforms. 6. It should have Stimulation frequency up to 100 pulses per second. 7. It should have Burst and Theta Burst (TBS) capabilities. 8. It should have Double stimulation function (BI option) 9. It should have Coils with integrated controls to use the unit with just one hand. 10. It should have Pneumatic stimulation footswitch 11. It should have Trigger IN / OUT capabilities for connecting the unit to all EMG amplifiers on the market. 12. It should come with options with-MEP Module (according to unit version), Ergonomic trolley with coils' support, Wide range of available Coils, UPS, Patient Robotic Chair, Galileo PMS with Protocol Management System (for protocol customization, archiving and patient treatment management with follow-up, ...) and Patient Report Generator 13. It should have functions of MRI Import with automatic classification of scalp, white matter and grey matter volumes for 3D image creation. 14. It should have High spatial resolution optic tracking system (max error 0.25mm). 15. It should have Easy calibration sequence for a fast calibration of both head and coil. 16. It should to displays the type of stimulus and MEP response for each stimulation carried out through highly expressive display in the 3D scene. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

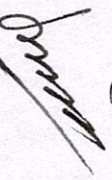
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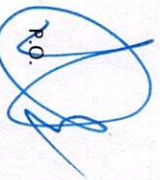
Recommendation of ADS Med

	<p>17. It should allow the management of TMS/rTMS/FTMS sessions and TMS exams for each patient</p> <p>18. It should have allows to schedule offline the stimulation before the patient's arrival and without having to activate the optical tracking.</p> <p>19. It should have Repositioning Tool that helps the user to bring back the coil in a desired position carried out through highly expressive display of positioning error.</p> <p>20. User selectable transparency degree for both coil and scalp.</p>		As per specifications
B.	<p>STANDARD, SAFETY AND TRAINING</p> <p>1. Should be FDA, CE, or BIS approved product.</p> <p>2. Manufacturer should have ISO certification for quality standards</p> <p>3. Comprehensive training for lab staff and support services till familiarity with the system on site.</p> <p>4. Comprehensive warranty for 2 years and 5 years CMC after warranty</p> <p>5. Certified to be compliant with Electrical Safety Standard for Medical Equipment- IEC-60601-1-1 13R equivalent BIS OX international standard for electrical safety</p> <p>6. Should be ISO, CE or USFDA approved.</p>	OEM should submit an undertaking and documents in this regard.	As per specifications
C.	<p>DOCUMENTATION</p> <p>1. User/Technical/Maintenance manuals to be supplied in English</p> <p>2. Certificate of calibration and inspection.</p> <p>3. List of Equipment available for providing calibration and routine Preventive Maintenance</p> <p>4. Support. as per manufacturer service/ maintenance manual.</p> <p>5. List of important spare parts and accessories with their part number and costing.</p> <p>6. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist</p> <p>7. The job description of technician clearly spelt out.</p>	OEM should submit an undertaking and documents in this regard.	As per specifications

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Recommendation of ADS (Med)



R.O. 

Appendix-2J (xviii)

9. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "4 Polysmography (Sleep Study)"

Specifications	Procedure suggested for trial by board of officers	Results expected/Desired
<p>A.</p> <ol style="list-style-type: none"> 1. Total Number of Channels should be : More than 60 a) EEG input should be : 32 b) The machine should have EMG input of : 5 c) The machine should have EOG of : 2 d) The machine should have ECG : 7 (3 Physical and 4 derived) e) Nasal /oral/Airflow : 1 f) Flow (Thermal) : 1 g) Respiratory Effort ,Zrip : 2 h) Snoring, Microphone : 1 i) Body Position : 1 j) CPAP Pressure : 1 k) Limb Movement : 2 l) SaO2 [Masimo/Nomin/Nellcor/FAST] : 1 m) Pulse rate : 1 n) Light sensor : 1 o) Sensors : 2. Sensor- pediatric and adult, microphone, pulse Oximeter sensor and leads) of ECG, EEG, Leg & chin EMG, EOG 3. Additional 8 DC channels for external peripherals like capnography, PH, blood pressure Monitor etc. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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Recommendation of Ady (med)

	<p>4. Other Technical Specifications</p> <ul style="list-style-type: none"> a) Pressure transducer for nasal air flow b) Automatic chin EMG referencing c) Integrated Pulse Oximeter. d) on screen impedance check e) Pulse transit time (PTT) f) Adjustable gain and notch filter. g) Full compressed raw data stored on all channels. h) Facility for fully synchronized and integrated patient video recording and monitoring. i) Video camera should be networked j) Real time Access to studies for analysis currently being recorded from the review/recording station. k) Data replay with software operates on latest Microsoft windows professional. Computer with 8 GB RAM with 1024 GB hard drive with colour laser Printer. l) Computer interface through LAN for integration into hospital network. m) Portable recording workstations can operate anywhere/on standalone basis. n) Screen resolution from 800 X 600 to 1200 X 1600 		
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Member-XII

R.O.

Recommendation of Assessments






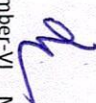

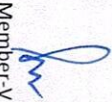

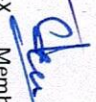
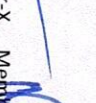


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	<p>o) User definable Montages, montage changes</p> <p>p) User configurable reports-All night dump sleep stage summary, Arousal summary etc.</p> <p>q) Automatic Sleep Staging with manual override, Respiratory / PLM's analysis, Neurological events.</p> <p>r) Independent, selectable time basis for upper & lower portions of the screen enabling the see fast moving traces like EEG and Slower respiratory waveforms on the lower half.</p> <p>s) Capnography Should Be there [accuracy $\pm 0.1\%$]</p> <p>t) Titration device should be as follows:- Modes: CPAP, Auto CPAP, S, Auto Bi-level, S/T, T, PC, AutoSV, AVAPS-AE. Weight Approximately: less than 2.5 kg Altitude compensation: Automatic Pressure ranges CPAP : 4- 20 cm H2O Auto CPAP : 4- 20 cm H2O S Mode :EPAP: 4-25 cm H2O, IPAP: 4 – 30 cm H2O Auto Bi-level : EPAP: 4 -25 cm H2O,IPAP 4-25 cm H2O S/T, T, PC:EPAP:4- 25 cm H2O, IPAP:4 – 30 cm H2O AutoSV :EPAP: 4-30 cm H2O, Pressure Support: 0- 26 cm H2O AVAPS-AE: 4- 30 cm H2O, Pressure Support 2 – 26 cm H2O</p> <p>It should have integrated Humidifier It should be USFDA approved.</p>		
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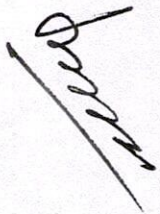
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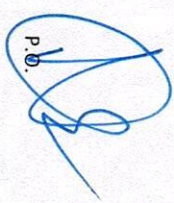
Recommendation of Addismed

STANDARD, SAFETY AND TRAINING			
B.	<ol style="list-style-type: none"> Should provide live demonstration of equipment to the end users. Should provide maintenance, support for minimum 10 years and warranty for minimum 5 years Should provide test results compatible to NABL/LAC laboratories. Comprehensive training for technical staff and proper support services till familiarity with system. Should be IS certified or compatible with European standards where Indian standards are not available. Comprehensive warranty for Daily, Weekly, Monthly maintenance. 	OEM should submit an undertaking and documents in this regard.	As per specifications
DOCUMENTATION :			
C.	<ol style="list-style-type: none"> User/ Technical/ Maintenance manuals to be supplied in English. Including do's and don'ts in English/Hindi and test results from NABL/LAC accredited laboratory. Validity of Calibration: Valid Calibration certificate to be provided by the manufacturer Log book with instructions for Daily, Weekly, Monthly maintenance. The job description of the hospital Technician, service engineer should clearly spelt out. 		

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









Recommendation of ADG (med)



P. O. 

10. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "COMPREHENSIVE MONITORING & SURVEILLANCE SYSTEM FOR PSYCHIATRIC PATIENT SAFETY & SECURITY":

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <ol style="list-style-type: none"> 1. It should have 2.4 MP Combo camera set with adequate no. of Bullet, 16-Channel DVR 2 TB HDD, 16-Channel SMPS, Cable roll, and BNC DC, HDMI. 2. Its cameras should be 2.4MP IR Dome & Bullet Camera - 1/2.7" 2.4MP HD Color Image sensor, 25/30fps@2.4MP, Min. Illumination: Color (0.1Lux), White and Black (0.01Lux IR LED On), 3.6mm Lens, IR Range of 20 Mtr, Day/Night (ICR), AWB, AGC, BLC, Plug-n-Play HD/SD Camera, Equipped with fine IR LEDs for clearer night vision, Compatible with HDX, AHD, HDCVI, CVBS and HDTVI DVRs, IP66 weatherproof. 3. It should have adequate no. of IP based CCTV cameras of 2.4 MP. Number of cameras should be as per the need of all sensitive areas to be monitored. 4. It should have adequate no. of fixed bullet/dome CCTV IP camera fixed at the outdoor. 5. It should easily connected with mobile thru the internet and watch live cameras & recorded clips from anywhere, also work on AHD, HDCVI, HDTVI, CVBS, and IP Video Signal Input, DVR Has VGA & HDMI Output, One Audio Input and Output, One LAN/Network RJ45 Port and 2 USB Port. 6. It should have DVR: H.264 dual-stream video compression, All channel 1080P Lite Non-Real Time Recording, Support AHD, TVI, CVI, CVBS, IP Video input, HDMI / VGA simultaneous video output. Support 1 SATA Port up to 8TB, 2 USB Ports (2.0), Mobile Software: cMOB-20, CMS Software: RVMS Pro. 7. It should have 16 channels PoE NVR with at least 8 surveillance 2tb HDD supported. 8. It should have 43" or appropriate size LED panel/screen/monitor protected in wooden box. 9. It should have adequate no. of 6U wall mount rack with accessories. 10. It should have adequate length of CAT-6 UTP cable for CCTV network. 	<p>Board should physically demonstrate.</p> <p>check during</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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Recommendation of AD (Medical)

<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. Manufacturer should have ISO certification for quality standards. 2. Comprehensive training for staff and support services till familiarity with the system on site. 3. Comprehensive warranty for 2 years and 5 years CMC after warranty. 4. Certified to be compliant with Electrical Safety Standard for Medical Equipment- IEC-60601-1-1 13R equivalent BIS OX international standard for electrical safety. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. User/Technical/Maintenance manuals to be supplied in English 2. Certificate of calibration and inspection. 3. List of Equipment available for providing calibration and routine Preventive Maintenance 4. Support. as per manufacturer service/ maintenance manual. 5. List of important spare parts and accessories with their part number and costing. 6. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist 7. The job description of technician clearly spelt out. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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

















Recommendation of AD's (med)

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Appendix-2J (xxiv)
11. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "AUDIO-VIDEO LED PANEL/SCREEN FOR PSYCHO-EDUCATION SESSIONS-"















Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <p>1. Product Specification</p> <ul style="list-style-type: none"> • Screen Size 43" • Resolution 4K Resolution • Display Type Professional Display Panel • Mount Type Wall Mount as well as Stand able • Ports XR, HDCP 2.3 (HDMI) / RS232 / USB / RJ45 / Wi-Fi with In-Built Bluetooth / 20W Speakers <p>2. Product Description: 4K (3,840 x 2,160), Professional Slim Blade Stand Display with 4K HDR Processor X1, HDR (HDR10, HLG, Dolby Vision), Direct LED, Dynamic contrast ratio upto 400,000:1, 4K X-Reality PRO, TRILUMINOS PRO technology, 24/7 Portrait, Tilt functionality, Flexible Content Layout with HTML5, 16GB On Board Storage, Motion flow XR, HDCP 2.3 (HDMI) / RS232 / USB / RJ45 / Wi-Fi with In-Built Bluetooth / 20W Speakers / Android™ OS system, Viewing angle 178 degree, Pro Mode, Pro Display using Apple Air Play & Chrome cast.</p>	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. Manufacturer should have ISO certification for quality standards. 2. Comprehensive training for staff and support services till familiarity with the system on site. 3. It should have 1 year warranty provided by the manufacture from the date of purchase. 4. Its service center should allot a convenient slot for the service. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>


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<p>C.</p> <p>DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. User/Technical/Maintenance manuals to be supplied in English 2. Certificate of calibration and inspection. 3. List of Equipment available for providing calibration and routine Preventive Maintenance 4. Support. as per manufacturer service/ maintenance manual. 5. List of important spare parts and accessories with their part number and costing. 6. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist 7. The job description of technician clearly spelt out. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
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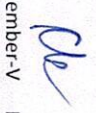
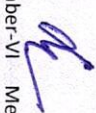
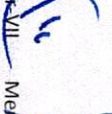
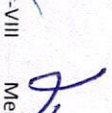
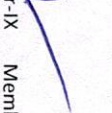
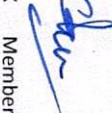


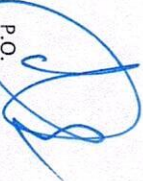
12. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "PSYCHOTHERAPY RECLINER CHAIR- POWER LIFT & INFINITE POSITION."

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <p>FEATURES</p> <ol style="list-style-type: none"> 1. It should be multi-functional power lift recliner chair to help the patient stand up effortlessly. It should have enough power motors to allow adjusting the chair's reclining, tilting, and footboard individually to suit patient's needs. 2. It should Go into a zero-gravity position by elevating the feet higher than head and heart, effectively alleviate the pressure on the vertebrae, relieving the discomfort of back pain, giving your heart relaxing position. 3. It should have overstuffed padding and headrest, back with an unexpected sense of the support, built-in springs in both of back and seat, pillow top arms, to provide max comfort. 4. It should have all-in-one remote design to make it easy to operate the chair. The remote should have a USB outlet that keep the devices charging and dual side pockets for small items within reach, two cup holders on both sides of armrests best meets patients needs. 5. It should be easy to install and does not require any tools. Should take only 10 to 15 minutes to assemble. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

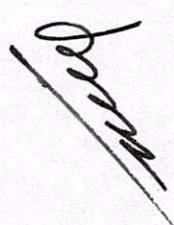
Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII  P.O. 

Recommendation of AdCommed 

<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> 1. It should be approved by various safety & regulatory bodies. 2. The manufacturer should have ISO certification for quality standards 3. Comprehensive training for lab staff and support services till familiarity with the system on site. 4. Comprehensive warranty for 1yr against manufacturing defects. 5. Certified to be compliant with Safety Standard for Medical Equipment. 6. Should be ISO certified and approved. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>DOCUMENTATION :</p> <ol style="list-style-type: none"> 1. User/Technical/Maintenance manuals to be supplied in English 2. Certificate of calibration and inspection. 3. List of Equipment available for providing calibration and routine Preventive Maintenance 4. Support. as per manufacturer service/ maintenance manual. 5. List of important spare parts and accessories with their part number and costing. 6. The job description of technician clearly spelt out. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII 

Recommendation of ADG (Med)

















Appendix-2J (xxviii)
13. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "COMPREHENSIVE PSYCHOLOGICAL ASSESSMENT & TESTING TOOLS/SCLAES KIT".

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
<p>A.</p> <p>I. DEVELOPMENTAL & PEDIATRIC EDUCATIONAL & LEARNING RELATED TOOLS</p> <ol style="list-style-type: none"> 5 Factor Personality Inventory For Children-FFPI-C Letter's International Performance Scale-3rded& Indian Adaptations. Developmental Assessment Of Young Children-2nd Ed-DAYC-2. Child Symptoms Inventory-CST-4-Kenneth. Diagnostic Test for Learning Disabilities. Autism Diagnosis Interview-Revised Version. Adolescent Coping Scale. Gesell's Drawing Test for Intelligence. Assessment Tool for Learning Disability. <p>II. BEHAVIOR & ATTITUDE STUDY RELATED TOOLS</p> <ol style="list-style-type: none"> Conduct Disorder Scale. Parent Adolescent Relationship Questionnaire. Substance Use Subtle Screening Inventory. Clinical Assessment Of Depression-Bruce. Mobile Phone Addiction Scale. Internet/Social Media Addiction Screening And Diagnostic Test Tools. Resilience Scale. Stress Coping Technique Questionnaire. <p>III. CLINICAL & PERSONALITY RELATED TOOLS</p> <ol style="list-style-type: none"> 16PF Questionnaires-All A/B/C/D/E types/forms & including Indian adaptations. TAT-Thematic Perception Test-Original & Indian adaption. Rorschach's Ink Blot test-all versions with complete kit (Guiding manual + plates+ forms + record sheets+ scoring +interpretation assistance program version-5+ sheets) + forensic version + computerized versions & software. Personality Inventory for Youth. Clinical Assessment Scale for Elderly. 	<p>Board should check physically during demonstration.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-X  Member-XI  Member-XII  P.O. 






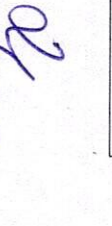



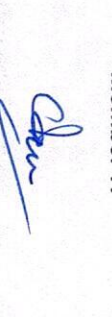
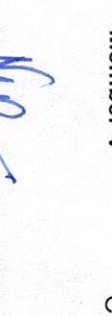
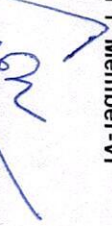
Recommendation of ADDS (M)

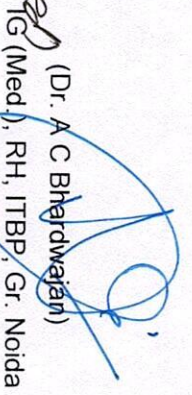
<p>IV. NEUROPSYCHOLOGICAL ASSESSMENT TOOLS</p> <ul style="list-style-type: none"> a) Halstead Reitan Test Battery. b) Bhatia Neuro-psychological test Battery. c) Lu: a NebreskaNeuro Psychological Test Battery. d) WCST-C4-Wisconsin Card Sorting Test-C4 –card version and computer version. e) Neuropsychological Impairment Scale. f) Stroop Neuro-Psychological Impairment Scale. g) Brief Test for Head Injury-Nancy. h) Comprehensive Test for Non-Verbal Intelligence. <p>V. INTELLECTUAL, APTITUDE, ABILITY & COGNITIVE FUNCTIONS RELATED TOOL</p> <ul style="list-style-type: none"> a) Wechsler's Intelligence Test for Adults And Children-Both Versions. b) Stanford Binet intelligence Test-4th Ed. c) Stanford Binet intelligence scale-5th Ed. d) Raven's Progressive Matrices test for intelligence. e) IDS-Intellectual disability scale. f) RIAS-2 & RIST-2-Reynold's intellectual disability assessment and screening tool- both with introductory kit. g) Scale for assessment of emotional disturbance-2nd Ed. 	<p>Board should physically demonstrate.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>VI. MENTAL HEALTH, STRESS & ANXIETY RELATED TOOL</p> <ul style="list-style-type: none"> a) PSE-9-Present Status Examination-9thEd b) SADS-Schedule for Affective disorder & Schizophrenia. c) SCAN-Schedule for Clinical Assessment in Neuro-Psychiatry. d) Psychiatric diagnostic screening questionnaire. e) Occupational Stress Inventory. f) Marital Satisfaction Inventory. g) Marital evaluation checklist. h) MAQ-Multi dimensional anxiety questionnaire. i) Adolescent Anger Rating Scale. j) Mental status checklist for adult and children. <p>VII. FORENSIC PSYCHIATRY RELATED TOOLS</p> <ul style="list-style-type: none"> a) Malingering probability test. b) SIQ-Suicidal ideation Questionnaire for young and adult-both versions. c) SPS-Suicide Probability scale. d) Psychopathic personality inventory-Revised version. e) Evaluation for Competency to stand trial. f) Structured interview for repeated symptoms-2nd Ed. g) Victoria symptoms validity test. h) Miller forensic Assessment of Symptoms Test i) SIMS- Structured Inventory of Malingered Symptomatology. 	<p>Board should physically demonstrate.</p> <p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

Member-I  Member-II  Member-III  Member-IV  Member-V  Member-VI  Member-VII  Member-VIII  Member-IX  Member-X  Member-XI  Member-XII  Member-XIII  P.O. 

Recommendation of ADG (Med)

<p>B.</p> <p>STANDARD, SAFETY AND TRAINING</p> <ol style="list-style-type: none"> All the tool should be in original version. All test or tools mentioned above must include all the version, Indian adaptation, manual book, all blank forms, cards, all scoring sheets, keys, answer sheets, computerised version, in English and Hindi versions, wherever available revised version/all age versions, with supporting computer softwares/disk/CD etc. Publisher should have certification for quality standards. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>
<p>C.</p> <p>DOCUMENTATION :</p> <ol style="list-style-type: none"> User/Technical/Maintenance manuals to be supplied in English. Support: as per manufacturer service/ maintenance manual. List of important spare parts and accessories with their part number and costing. The job description of technician clearly spelt out. 	<p>OEM should submit an undertaking and documents in this regard.</p>	<p>As per specifications</p>

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|--|---|--|--|--|---|
| <p>
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RH, ITBP, Gr. Noida
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Recommendation of  (Dr. A C Bhatdwarjan)
IG (Med), RH, ITBP, Gr. Noida

Presiding Officer

APPROVED / NOT APPROVED

DIRECTOR GENERAL
BORDER SECURITY FORCE