41. SQUADRON PLUS (CPR MANNEQUIN)- 5 PCS PACK WITH LUNGS BAGS

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
HEAD	• Head should be made up of a good plastic quality. • Size: Length : 19 -25 Cms, Width: 12-15 Cms • It should be screwed with the neck with a facility for extension. • Mouth should be opened by 2.5 Cm to 4 Cm for inserting lung bag. Mandible or lower jaw should be movable. • Nose should be made up of such material that can be pinched. • Eye ear should be well impressed.	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
MAIN BODY (BACK)	• It is the posterior portion of the body to which head and chest portion is fixed. • Should be made up of good quality of plastic with a circular hole in the center of the torso to place the piston. • At the end of the neck there should be a provision to screw the head. • There should be a provision to attach chest part over the upper portion of back. • Length of the back 48-68 Cms, Width: 28 - 40 Cms • Length of the neck: 16cms - 18 Cms.		
CHEST	• Should be made up of good quality of rubber. • Can be compressed by 4-7 Cms • Clavicle, xyphoid process, sternum, navel and ribs should be with proper landmarks. • Left right chest should be well impressed. • There should be cleft in the center of the chest so that airway system (lung) can be inserted. • Length of the chest 30-45 Cms, Width 28-38 Cms.		
PISTON	• Should be made up of good quality of sponge. • Should properly fit over the hole of the back • Diameter of the piston should be 12 to 15 Cms (Subject to fit over the hole on the back). • Height of the piston: 7-10 Cms.		

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LUNG BAG	• Should be made up of good quality of polyethylene. • It will be in three parts	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
MOUTH	• Rectangle in shape in shape with two flaps that be fixed over the mouth to prevent air entry from out sides. • Size: Length; 12 -13 Cms, Width: 4-7 Cms • The mouth leads into windpipe.		
WIND PIPE	• Should be spherical in shape when inflated. • Circumference; 10-12 cms		
LUNG	• Spherical in shape when inflated. • Radius; 6-7 cms		
INSERTER	• A flat plastic strip for inserting lung bag through of the mannequin into cleft of the chest. • Length: 48-52 cms • Width: 3-4 cms		

42. PULSE OXYMETER

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
WEIGHT (GRAM)	Less than 300 g	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
NOISE LEVEL (DB)	<40 Db		
TECHNICAL CHARACTERISTICS (SPECIFIC TO THIS TYPE OF DEVICE)	a. SpO2 measurement range at least 40-70 and 70 to 99 %, minimum gradation 1%., b. Accuracy of SpO2 better than +-1% for range 40-70 and better than +-3% for range 70-99 c. Accuracy of pulse rate better than ± 5 bpm d. Audio-visual alarms required: high and low SpO2 and pulse rate; operator variable settings; sensor disconnected, sensor failure, low battery. e. Pulse rate range at least 30 to 240 bpm, f. Minimum gradation 1 bpm		
POWER CONSUMPTION	1.5 Watt		
POWER INPUT AND FREQUENCY	220 to 240V, 50 Hz		
DISPLAY TYPE	Color Ordinary LED		
HEAT DISSIPATION	Should maintain nominal temperature and prevent overheating of the probe.		

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MOBILITY, PORTABILITY	• Protective splash-proof case for clean storage and safe transport	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
OPERATING CONDITION	• Capable of operating continuously in ambient temperature of 0 to 50 degree Celsius and relative humidity of 15 to 90% in ideal circumstances		
STANDARDS & SAFETY	• Should be FDA / CE approved. Should qualify ISO 80601-2-61-2011: Medical Electrical equipment- part 2-61: Particular requirements for the basic safety and essential performance of pulse oximeter. Manufacturer/ supplier should have ISO 13485 certificate for quality standard. Electrical safety should confirm to standards for electrical safety IEC-60601-1, shall meet IEC-60601-1-2 (General requirements for safety- electromagnetic compatibility).		
SIGNAL STRENGTH OR QUALITY TO BE VISUALLY DISPLAYED	Yes		

43. B.P APPARATUS DIGITAL

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
DETAILED REQUIREMENTS	Measurement ranges: systolic (mm Hg), 60–250, 60-290 preferred for adults, 30–160 for children and 20–120 for neonates. Diastolic (mm Hg), 30–180 adults, 10–150 paediatric, 10-100 neonate. Mean arterial pressure (mm Hg), 30–250 adults, 30–160 children, 30–110 neonates. Pulse (beats per min), 30–150 adult and children, 30–180 neonates. Inflation pressure (mm Hg) 150–260 adults, 85–140 neonates; adjustable or automatically set preferred. Auto deflate pressure (mm Hg), 300 adults, 150 neonates. Measurement interval, min: User selectable: ≥ 5 choices. Cuff sizes: neonatal, paediatric, adult, large adult, thigh. Measurement time (s) ≤ 60, user selectable. Automatic 0 required. Display may include tabular and/or graphic trends (user preference). Equipment alarms required: cuff leak, cuff disconnect, failure to take successful reading, low-battery notice. Equipment alarms preferred: hose leak, inflation or deflation error. Sphygmomanometer should automatically deflate if the cuff pressure reaches 300 mm Hg for an adult and 150 mm Hg for a neonate.	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.

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DISPLAYED PARAMETERS	The unit should display the following numerical values: systolic pressure, diastolic pressure, pulse rate and mean arterial pressure. Other parameters are optional. The unit should alert the operator, either visually or audibly.	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
USER ADJUSTABLE SETTINGS	Inflation pressure should be adjustable or automatically set according to a previous or current pressure reading or individual requirements. Time between automatic BP measurement cycles should be selectable from at least five values over a range of 1 to 60 min. Set alarm volume and limits within the specified measurement ranges.		
COMPONENTS	• Rubber tubes to be detachable from other parts, allowing periodic cutting of decayed ends. • Gauge body to include clip for mounting on cuff. Tube length to be > 30 cm. • Different cuff sizes should be available as per the requirement (small or neonate, medium or pediatric, large or adult and extra-large or large adult). • Cuff material to be removable and washable.		
MOBILITY, PORTABILITY	Wall, portable, table-top, mobile stand		
UTILITY REQUIREMENTS	AC: 120/240, 50/60 Hz DC: Rechargeable battery (for at least 1 h of operation, single-use or rechargeable)		
CONSUMABLES AND REAGENTS	Single-use cuffs in the following sizes: neonatal (10–15 cm), pediatric (14–22 cm), adult (25–36 cm), large adult (34–43 cm), thigh (40–55 cm). The sizes of the cuffs depend on the manufacturer but should not deviate by ± 5 cm from the stated sizes. Batteries.		
SPARE PARTS	Rubber tube (length > 30 cm), reusable cuffs in the following sizes: neonatal (10–15 cm), pediatric (14–22 cm), adult (25–36 cm), large adult (34–43 cm), thigh (40–55 cm). The sizes of the cuffs depend on the manufacturer but should not deviate by ± 5 cm from the stated sizes. Tubing, valve		
OTHER COMPONENTS	Protective case		
AVAILABILITY OF SOFTWARE AND HARDWARE UPGRADES	Software upgrade required and if available from factory		

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INTERNATIONAL STANDARDS	• ISO 13485:2016, Medical devices – Quality management systems – Requirements for regulatory purposes • ISO 14971:2007, Medical devices – Application of risk management to medical devices	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.

44. B P APPARATUS MERCURY

CRITERIA	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
TECHNICAL CHARACTERISTICS (SPECIFIC TO THIS TYPE OF DEVICE)	Scale 0-300 mm hg. Air release at closed lap with maximum 4mmHg/Minute. Manual setting of deflation possible up to 2/3mm Hg/sec. From 260mmHg. To 15mm Hg in a maximum deflation time of 10 seconds. Gauge's background in white Colour. Graduated scale for ever/ 2mm hg, every 10 units and every 20 units. Nylon straps cuff with pouch, latex bulb with completely chromium plated valve with regulation of vent-hole air by screw valve.	OEM should submit an undertaking in this regard. Board should check the product.	As per specification.
SETTINGS	The cuff is inflated just to fit in the limb for which an inflation bulb is used to control the air pressure within the cuff.		
USER'S INTERFACE	Manual		
DIMENSIONS (METRIC)	The rubber tubes used should have an internal diameter of 3 ± 0.5mm and the external diameter should not be less than 8mm; The dial manometer with minimum diameter of 160 mm.		
MOBILITY, PORTABILITY	Yes		
ACCESSORIES (MANDATORY, STANDARD, OPTIONAL)	Adult arm cuffs of size medium & large and pediatric size, inflation bulb, tubing.		
CERTIFICATES (PRE-MARKET, SANITARY) PERFORMANCE AND SAFETY STANDARDS (SPECIFIC TO THE DEVICE TYPE) LOCAL AND / OR INTERNATIONAL	ISO 13485		
PRE-INSTALLATION REQUIREMENTS: NATURE, VALUES, QUALITY, TOLERANCE	Supplier to perform safety and operation checks before handover.		

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REQUIREMENTS FOR SIGN-OFF	Certificate of inspection from the factory.	• Board should check the product. • OEM should submit an undertaking in this regard.	As per specification.
TRAINING OF STAFF (MEDICAL, PARAMEDICAL, TECHNICIANS)	Training of users in operation and basic maintenance shall be provided.		
WARRANTY	1 year		
MAINTENANCE TASKS	Maintenance manual detailing complete maintaining schedule.		
OPERATING MANUALS, SERVICE MANUALS, OTHER MANUALS	User, technical and maintenance manuals to be supplied in English language along with machine diagrams. List to be provided for procedures required for routine maintenance.		
RECOMMENDATIONS OR WARNINGS	Any recommendations for best use and supplementary warning for safety should be declared.		

45. OTOSCOPE AND NASAL SPECULUM

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. At least 2.5V Xenon or Halogen light source. 2. Should be a convenient pocket type otoscope. 3. Swivelling viewing with at least 3x magnification 4. Should be able to detach the otoscope head. 5. Should provide no reflections and obstructions. 6. Should provide detachable accessories of various sizes. 7. Should have inbuilt rechargeable battery.	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

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46. SUCTION UNIT WITH ACCESSORIES (MANUAL)

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Volt- 230 Vac 2. Rating of Motor- continuous 3. Suction Bottle Capacity- 2 x 2000 ml minimum (with safety valve) 4. Guage- 0 to760 mm Hg 5. Pump- Oil lubricates rotary pump 6. Suction Tubings- ID7 mm, 5m long and non-collapsible. 7. Should have air tight lids. 8. Should have a noiseless Operation 9. Should provide filter to absorb moisture and water particles entering into the rotor. 10. Should have an external provision for topping up of lubricant. 11. Should be well-designed, cabinet made of mild steel powder coated. 12. Should bear ISI mark	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

47. BAG VALVE MASK ADULT (SILICON, STEAM, AUTO CLAVABLE)

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Used to provide rescue breathing to patient 2. Size: Adult; disposable rubber vinyl bag of 1.5L capacity pressure relief valve. 60 cm H_2O. Size-5 Mask 3. Components: self inflating compressible rubber/ vinyl bag of 1.5L capacity, one way inflating valve, face mask, oxygen reservoir, oxygen port and connecting tube 4. Material: high quality plastic/vinyl transparent and for single use; 5. Transparent soft pre inflated plastic face mask 6. Good quality connecting tube of 3 meter length 7. Standardized 15/22 mm fittings. 8. Adjustable hook and loop handle. 9. Collapsible body and reservoir 10. PEEP valves/elbows included; non jam valve with maximum oxygen flow of 8-10 L/minute or more Single use sterilized and disposable pack.	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

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48. BAG VALVE MASK CHILD (SILICON)

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Used to provide rescue breathing to patient 2. Size: Child; disposable rubber vinyl bag of 550 ml with pressure relief valve 40cm H_2O capacity Size-3 Mask 3. Components: self inflating compressible rubber/ vinyl bag of 500 ml capacity, one way inflating valve, face mask, oxygen reservoir, oxygen port and connecting tube 4. Material: high quality plastic/vinyl transparent and for single use; 5. Transparent soft pre inflated plastic face mask 6. Good quality connecting tube of 3 meter length 7. Standardized 15/22 mm fittings 8. Adjustable hook and loop handle 9. Collapsible body and reservoir 10. PEEP valves/elbows included; non jam valve with maximum oxygen flow of 8-10 L/minute or more 11. Single use sterilized and disposable pack.	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

49. BAG VALVE MASK INFANT (SILICON)

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Used to provide rescue breathing to patient 2. Size: Infant; disposable rubber vinyl bag of 280 ml with pressure relief valve 40cm – H_2O capacity Size-1 Mask 3. Components: self inflating compressible rubber/ vinyl bag of 500 ml capacity, one way inflating valve, face mask, oxygen reservoir, oxygen port and connecting tube 4. Material: high quality plastic/vinyl transparent and for single use; 5. Transparent soft pre inflated plastic face mask 6. Good quality connecting tube of 3 meter length 7. Standardized 15/22 mm fittings 8. Adjustable hook and loop handle 9. Collapsible body and reservoir 10. PEEP valves/elbows included; non jam valve with maximum oxygen flow of 8-10 L/minute or more 11. Single use sterilized and disposable pack	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specificati

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50. NBC CASUALTY BAG HALF (JSS 1195-01:2012)

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. With observation window 2. Breathable/ Air Permeable 3. Fame retardant 4. Oil and Water repellant 5. Prevents carbon with skin 6. Overall length:2200mm 7. Zip length:1750 mm 8. Face mask: Compatible with the majority of full face mask	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

51. STRETCHER SPINE BOARD ACCESSORIES

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Spinal board Stretcher should be made of PE.(polyethylene) Durable, antiseptic and can be used in X-ray. 2. Sizes (L*W*H): 190*50*8cm. 3. Light Weight. 4. Load bearing: 159kg.	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

52. EXPENDABLE MEDICINES/SURGICAL/LAB ITEMS

CRITERIA	SPECIFICATION	Procedure Suggested For Trial For Board Of Officers	Result Expected Desired
GENERAL SPECIFICATION	1. Standard quality should be maintained related manuals should be available. 2. Rust free for the surgical and lab items.	• OEM should submit an undertaking in this regard. • Board should check the specification.	As per Specification

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53. WATER POISON DETECTION KIT

<table>
<tr><th>CRITERIA</th><th>SPECIFICATION</th><th>Procedure Suggested For Trial For Board Of Officers</th><th>Result Expected Desired</th></tr>
<tr><td>GENERAL SPECIFICATION</td><td>Weight:-3.4 kg
Test Capacity- 50 test for each poisons and 05 test of nerve agent and microbial contamination, can be used to test the metallic contaminates such as Hg, Mn, Cu, As, Bw contents of the kit :
<table>
<tr><th>S no</th><th>Description</th><th>Qty</th><th>Unit</th><th>Each row should mention its trial criteria</th></tr>
<tr><td>1.</td><td>Bottles containing test tablets and material</td><td>Nos 1-2</td><td>12 Nos.</td><td>The Board Should Check</td></tr>
<tr><td>2.</td><td>Reagent solution for for arsenic</td><td>Nos 13</td><td>1 Bottle</td><td>The Board Should Check</td></tr>
<tr><td>3.</td><td>Transparent bottles of 100 ml capacity</td><td>Nos 14-15</td><td>2 Nos</td><td>The Board Should Check</td></tr>
<tr><td>4.</td><td>Test paper for testing of mercury</td><td>No 16</td><td>1 Pkt</td><td>The Board Should Check</td></tr>
<tr><td>5.</td><td>Plain filter paper</td><td>No 17</td><td>1 pkt</td><td>The Board Should Check</td></tr>
<tr><td>6.</td><td>Test paper for testing of Sulphur ustard</td><td>No 18</td><td>1 pkt</td><td>The Board Should Check</td></tr>
<tr><td>7.</td><td>Chemical heater assembly</td><td>No 19</td><td>1 no</td><td>The Board Should Check</td></tr>
<tr><td>8.</td><td>Chemical heater reagent</td><td>No 20</td><td>1 Bottal</td><td>The Board Should Check</td></tr>
<tr><td>9.</td><td>Reagent solution for sulphur mustard</td><td>No 21</td><td>1 bottle</td><td>The Board Should Check</td></tr>
<tr><td>10.</td><td>Catalyst solution</td><td>No 22</td><td>1 bottle</td><td>The Board Should Check</td></tr>
<tr><td>11.</td><td>Microbial contamination testing bottles</td><td>No 23</td><td>5 nos</td><td>The Board Should Check</td></tr>
<tr><td>12.</td><td>Nerve agent testing bottles</td><td>No 24</td><td>5 nos</td><td>The Board Should Check</td></tr>
<tr><td>13.</td><td>Glass plunger</td><td>No 25</td><td>2 nos</td><td>The Board Should Check</td></tr>
<tr><td>14.</td><td>Test tubes</td><td>No 26</td><td>4 nos</td><td>The Board Should Check</td></tr>
<tr><td>15.</td><td>Dropper</td><td>27 no</td><td>4 nos</td><td>The Board Should Check</td></tr>
<tr><td>16.</td><td>pH paper</td><td>No 28</td><td>1 booklet</td><td>The Board Should Check</td></tr>
<tr><td>17.</td><td>Stainless steel scoop</td><td>No 29</td><td>1 no</td><td>The Board Should Check</td></tr>
<tr><td>18.</td><td>Instruction manual</td><td>No 30</td><td>1 no</td><td>The Board Should Check</td></tr>
<tr><td>19.</td><td>Aluminum work platform</td><td>No 31</td><td>1 no</td><td>The Board Should Check</td></tr>
<tr><td>20.</td><td>Dechlorinating reagent</td><td>No 32</td><td>1 bottle</td><td>The Board Should Check</td></tr>
</table></td><td></td><td>As per Specification</td></tr>
</table>

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