21.00.15

Annexure-1 L (i)

LIST OF GENERAL EQUIPMENT

9 E	8	, C	0 1	1 0	4 1		τ.		> =	20	2 4
Embalming Machine	Vaccum suction apparatus with vaccum cup	CRASH CART IROLLEY	Electro Operated Programmable Auto Tuning Hi-Lo ICU Bed	Semi Fowlers Bed	Interpretative ECG Machine		Pharmacy Freezer	Air Mattress Electric Operated	Human Dummy		NAME OF THE EQUIPMENT
	Yes (824 to 827)	Yes at Sl. No. 830	YES (S.NO 21)	YES (S.NO 20)	YES (S.NO 1)	refrigerator)	Yes (1569 to 1572 and 1575- freezer,	Yes (887- Air Mattress)	Yes (859- Resuscitation Manikin adult full body)	OF PET NOT MENTIONED SL.NO. AVAILABLE OR	IS IT AVAILABLE IN PET (AS PER 100 QRs
	YES	Yes	YES	YES	YES		YES	YES	YES	AVAILABLE OR	QRs

Member-II Member-III Member-IV Member-V Member-VI Member-VII Member-VIII Recommendation of ADIS(Med)

Member-IX Member-X Member-X Member-XI

1. QRs AND TDs of HUMAN DUMMY:

	SPECIFICATIONS	Procedure suggested for trial for Board of Officers	Result expected/ desired
;	The manikin should be realistic in appearance, and easy to clean to prevent cross-infections	Board should check	As
2.	The manikin should have a soft nose which can be occluded using the nose pinch technique, to teach proper CPR techniques by	ation.	
	ing	OEM should submit an undertaking and documents	
ω	The manikin should be supplied with a removable full facemask.	in this regard.	
.4	which		
5.	The manikin should have an articulating jaw to facilitate a modified jaw thrust maneuver to open the airway.		
6.	The manikin should be able to facilitate a head tilt/chin lift maneuver.		
7.	The manikin should have compliance similar to human body for ventilation and compressions with a visible chest rise during		
0	ventilation.		
	The manikin should have a disposable lower airway with an integral one way valve.		
9.	The manikin should have a completely removable chest cover.		
10.	The manikin should have a one piece rib/stomach plate which can facilitate abdominal thrusts.		
11.	The manikin should have a removable compression spring.	-	
12.	The manikin should have a compression clicker which provides audible feedback, which can be turned on and off without dismantling	÷	
3.	The face mask shall be easily changed and suitable for individual		
	student use.		

Kecommendation of ADSCMED Member-III | Member-IV | Member-VI | Member-VII | Member-VIII | Member-VIII Member-IX | Member-X | Member-XI Member-XII

14.	SPECIFICATIONS Manikin should be supplied with a soft padded training mat. The manikin should be realistic in appearance, Infant full body manikin.	Procedure suggested for Result expected/ trial for Board of Officers desired Board should check As per physically during specification.
16.	The manikin should be realistic in appearance, Infant full body manikin. The manikin should be supplied with a full facemask.	physically demonstration.
17.	The head should be rotatable and extendable.	
18.	The manikin should be able to withstand high temperature (50°C).	OEM should submit
19.	The Manikin should have natural obstruction of the airway that allow	undertaking and documents
	students to learn the technique of opening the airway	in this regard.
20.	Head tilt, chin lift and jaw thrust should be possible on manikin.	
21.	The Manikin should have realistic chest compliance for students to	
	experience the proper technique of chest compressions in infants	
22.	The manikin should have visible chest raise during ventilation.	
23.	The Manikin should allow foreign-body airway obstruction feature to	
	practice the release of a foreign-body obstruction through back blows	
	and chest-thrust techniques	
24.	The Manikin should have removable and reusable faces for convenient	
	cleaning and maintenance.	
STAN	STANDARD, SAFETY AND TRAINING :	
7	Should be supplied with: 6 Airways, 10 FBAO pieces	OEM should submit
		undertaking and documents in this regard.

Member-II | Member-III | Member-IV | Member-VI | Member-VI | Member-VII | Member-VII | Member-IX | Member-X | Recommendation of ADG (med)

	SPECIFICATIONS 1. Specification of Mattress with Cover:- 1. Specification of Mattress with Cover:- 2. Dimension Of Mattress: 230 cm x 100cm, 130 Bubble Cells Approx. 3. • PVC Thickness: 0.3mm 4. • Material: EN-71,Non Toxic PVC Medical Grade 5. • Weight Bearing Capacity: Approx. 130kg 6. • Repair Kit: 2 Patches with Glue with each mattress 7. Specification of PUMP:- 8. • Power Supply 200-240 Volts/50Hz 9. • Air Output Capacity: 5-7Litre/min 10. • Cycle Time: 5Min 11. • Pressure Range: 70-120mmHg STANUDARD, SAFETY AND TRAINING: 1. Should have CE (European Union compliance certified) 2. Power Cord Length: 1.5-2m Procedure suggested for trial for dee Board of Officers Board of Officers Board of Orficers Board of Orficers Board of Officers Board of Officers Board of Orficers Board of Officers Board of Orficers Board of Officers Board of Orficers Board of Officers In Should submit an undertaking of Officers Board of Offi
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Recommendation of ADIS (med)

Member-II Member-III Member-IV Member-V Member-VI Member-VII Member-VIII Member-IX Member-X M

Member-XII

•				
1		FREE non flammable refrigerants.		
>		Freezer must have dual compressor with CFC-FREE, HCFC-	14.	
		failure, system failure, battery lowetc.		
		It should have Audible and visible alarms for temperature, power	13.	
		port with on board SMART Plus diagnostic software.		
		Freezer must have provision for RS 232 interface data logging	12.	
		unauthorized tempering		
-		Freezer must have battery back-up and 4 PIN security lock for	11.	-
		Heavy duty lockable castors and lockable outer doors and lids.	10.	
		Freezers should have heated air vent and front panel air filter.	9.	
		adjustable shelves.		
		Freezer should have minimum five insulated inner doors with 4	.00	
		more.		
		Freezer should have the sample (2" vials) capacity of 24,000 or	7.	
		deg C < 6Hrs.		
		Freezer should have least pull down time from ambient to - 85	6.	
		kWh/day & noise level<56Db.		
		Freezer with least power consumption will be preferred <11	5	
,		ZINTEC 1.2 mmthick.		
		powder coated exterior finish constructed on steel gauge of 18g		
		System should have 304L grade stainless steel interior and tough,	4.	
		keypad and eye level control panel.		
	and documents in this regard.	Fully programmable microprocessor controlled with membrane	ω.	
	OEM should submit an undertaking	50°C up to -86°C with 1°Cincrement.		
		System should have Programmable operating temperature from -	2.	
specification.	demonstration.	Polyurethane foam insulation (130 mm thick).		
As per	Board should check physically during /	Upright Freezer with capacity minimum 400 liters or more with		
desired	1881			
Result expected/	Procedure suggested for trial for F	SPECIFICATIONS	SI. No.	

Member-II Member-III Member-IV Member-VI Member-VI Member-VII Member-VII Member-VII Member-VII Member-VII Member-VIII Member-V

Member-IX | Member-X | Member-XI | Member-XII

SI. No.	SPECIFICATIONS Freezer must have ISO 9001- safety requirements and IEC 61010 Electrical safety, CE & UL certified.
16.	Freezer must have washable condenser filter indication which should keep fins free of dust to maintain peak cooling efficiency.
17.	Freezer must have capacity to hold at least 15 racks and 240 boxes of 2" height vials.
18.	System should be quoted along with suitable 5KVA servo voltage stabilizer,2" Vertical racks, 2" cryo boxes with dividers,
19.	Freezer should have CO2 backup system as optional.
20.	Upright Freezer with capacity minimum 400 liters or more with Polyurethane foam insulation (130 mm thick).
21.	Fully programmable microprocessor controlled with membrane keypad and eye level control panel.
22.	System should have 304L grade stainless steel interior and tough,
	ZINTEC 1.2 mm thick.
23.	Freezer with least power consumption will be preferred <11 kWh/day & noise level<56Db.
24.	Freezer should have least pull down time from ambient to – 85 deg C < 6Hrs.
25.	Freezer should have the sample (2" vials) capacity of 24,000 or more.
26.	Freezer should have minimum five insulated inner doors with 4 adjustable shelves.
27.	Freezers should have heated air vent and front panel air filter.
28.	Heavy duty lockable castors and lockable outer doors and lids.

Member-II Member-IV Member-VI Member-VII Member-VIII Member-IX Member-X Member-X Member-XII Member-XIII Member-X Member-XII Member-XIII Member-X Member-XIII Membe

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Freezer should have at least 5-year warranty on compressor	I he vendor should enclosed user list of minimum 75 users of the same machine supplied to various reputed institutes/research labs/ICAR/CSIR institutes throughout India in last 3years.	above features.	All vendors are requested to attach original technical literature/	Freezer should have CO2 backup system as optional.	stabilizer,2" Vertical racks, 2" cryo boxes with dividers,	boxes of 2" neight vials.	Freezer must have capacity to hold at least 15 racks and 240	should keep fins free of dust to maintain peak cooling efficiency.	Freezer must have washable condenser filter indication which	Electrical safety, CE & UL certified.	Freezer must have ISO 9001- safety requirements and IEC 61010	STANDARD, SAFETY AND TRAINING:	FREE non flammable refrigerants.	Freezer must have dual compressor with CFC-FREE, HCFC-	failure, system failure, battery low etc	It should have Audible and visible alarms for temperature, power		Freezer must have provision for RS 232 interface data logging port with on board SMART Plus diagnostic software.	unauthorized tempering	Freezer must have battery back-up and 4 PIN security lock for		SPECIFICATIONS
anty on compressor	It of minimum /5 users of the seputed institutes/research India in last 3years.	a specifications & nignlight the	n original technical literature/	stem as optional.	xes with dividers,	suitable SKVA serve voltage	t least 15 racks and 240	ain peak cooling efficiency.	ser filter indication which		requirements and IEC 61010			with CFC-FREE, HCFC-		rms for temperature, power		232 interface data logging port c software.		nd 4 PIN security lock for		
										and documents in this regard.	OEM should submit an undertaking				and documents in this regard.	OEM should submit an undertaking	·					Procedure suggested for trial for
7	>									specification.	As				specification.	As						Result expe
											per				`	per						expected/

Member-II Member-III Member-IV Member-V Member-VI Member-VIII Member-X Memb

-XI Member-XII

QRs/SPECIFICATIONS&TRIALDIRECTIVES OF "INTERPRETATIVE ECG MACHINE"

	>		
SI. NO.	OPECIFICATIONS	Procedure suggested for trial Result for Board of Officers expect desired	Result expected/
Þ	 Simultaneously lead acquisition and display of up to12 leads. Upto12Configurable Rhythm Leads 	Board should check physically during	As per specifica
		demonstration.	tion.
	ANY 0 seconds with continuous patients' hear rate display.	OEM should submit an	
	 Storage of 200 ECG for all 12 leads in XML/PDF format on USB. 	Undertaking and	
̈́Β	ALGORITH:	documents in this regard.	
•	1. >600 interpretative statements.		,
	Standard measurements of intervals, durations and axis.		
	3. Selectable in terpretations.		
•	4. STEMI clinical support.		
-	Five ECG reports, ST Segment Analysis with graphical ST Vector, frontal and transverse.		
	6. Gender specific criteria that suggest any of 4 probable sites of		
	7. Right heat statements from right chest leads.		
	Culprit Art erycriteriathatsuggestanyof04probablesitesof occlusion with critical values requiring immediate clinical attention.		
C.	SIGNALQUALITY, DATEACQUISITION&PROCESSING:		>
	 Leads off advisory for disconnected leads. 	Undertaking and	AS per
i.	Four colour to indicate levels of wave from quality.	documents in this regard	tion
	3. Detection of Lead reversals.		90
	4. 8000 samples of second per lead wire.		
	5. Wide filter selection: 0.05 Hz to 150 Hz selectable as per applications.		
	6. Should have micro process or controlled digital processing facility.		>

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Member-XII

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NO.	t.	trail for board of officers	expected/desired
DISPLAY&DATE INISPUT:	2	OEM should submit an	As por
1. Highre solution colour 6.4"TFTdisplay, with touch screen for quick use.		undertaking and documents	specification.
Continuous display of Patient Heard Rate.	j.	in this regard.	
 Full Screen Preview of complete 12 lead reports prior to printing. 	ior to printing.		
 Integrated graphical help screen for primary function. 	т		
5. Full alphanumeric key board for quick patient data entry.	entry.		
Storage, Recording & printout.			
7. Built in high- resolution thermal array printer (200x500dpi).	500dpi).		
 A4 size recording with rhythm for 12 LECG on single sheet. 	le sheet.		
9. 200 EVGs internal storage and additional storage of 200 ECG swith	of 200 ECG swith		

5. QRs/SPECIFICATIONS & TRIAL DIRECTIVES OF "SEMI FOWLER BEDS"

							,	140	20	SI.
Rod at four or more locations	5. Back rest shall retract as they are individually raised. Provision for I.V.	bearing individually maneuvered by a single handle.	4. Manual adjustments: Backrest through one crank system with thrust	Two section carbon steel to pfitted on bed frame.	2. Mattress Platform size: 950 mm Lx 850mmW	Wx 500 to 600 mm	 Over all size: Approx 2100 mm to 2160 Lx 1000 mm to 1020 mm 			SPECIFCATION
								officers	for trail for board of	Procedure suggested
								expectea/aesirea		Resulted

Member-II Member-III Member-IV Member-VI Member-VI Member-VIII Member-VIII Recommendation of ADUCINE Member-IX Member-X Member-X Member-XII

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 Urine Bag Holder/Hook4no.(Two on each side) TwoSectionMattress-1no. Stainless steell Vrod—1no. 	ESSENTIALACCESSORIES:	13. Assurance (European CE, ISO 9001: 2008, ISO 400:2004 & ISO 13485 : 2003).	there shall be no sharp corners and holes should be burr free. 12. All process Parameters to be aper documented IMS procedures for	11. Finishing & workmanship in the medical furniture is of prime importance and must be of high standard. All corners shall be rounded off so that	10. There shall be four locations on the bed near corners of the betohold	foot side panels. 9. Four corner rubber/suitable buffers to be provided for bed safety	8. The bed shall have easily detachable and lockable mounted head	7. Cast or wheels made from high grade non floor-staining synthetic materials with integrated thread guards. Wheel center having precision	all with brakes).	6. The base frame shall be mounted on 125mm dia. Non-rusting high grade castor wheels two with brakes and two without brake. (if possible.	7.	NO.
		2008, ISO 400:2004 & ISO 13485 :	oles should be burr free. documented IMS procedures for	cal furniture is of prime importance rners shall be rounded off so that	bed near corners of the betohold	be provided for bed safety.	and					
OEM should submit an undertaking and documents in this regard.								undertaking and documents in this regard.	OEM should submit an	during demonstration.	Board should shock physically	trail for board of officers
As per specification.								·		specification.	>	expected/ desired

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NOTE: 1. Suppl 2. The s	Minimum1 year.	Should be USFI	C. POWERS 1. Li-lon 2. Option 3. Line p	SL. SPECIFICATION NO.	
Supplier must submit manufacture authorization certification. The supplier may beasked to arrange demonstration of their equipment for which rates have been quoted, at the consignee, if required. The expenditure incurred for demonstrating the	NTY:	CERTIFICATE: Should be USFDA approved and European CE Certified.	POWERSUPPLY: 1. Li-lon battery for printing at least 25 ECG on full charge battery. 2. Option for second Li-lon battery for additional extended back-up. 3. Line power 100-240V, 50/60 Hz with consumption less than 70W.	CATION	
		1	OEM should submit an undertaking and documents in this regard.	Procedure suggested for trail for board of officers	
			As per specification.	Resulted expected/ desired	

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6. QRs/SPECIFICATIONS & TRIAL DIRECTIVES OF "ELECTRO OPERATED PROGRAMMABLE AUTOTUNINGHI-LO ICU BED"

				S.No.
 (+/10mm) (W) x height adjusted from450mmto825mm(+/-00mm) without mattress. 3. Base frame should made of 30mm x 60mm, 200 thick CRCA rectangular tube with the bed frame of 50 mm x 25 mm and 40 mm x 20 mm, 2mm thick rectangular tube. 4. The fully automatic wire remote controlled intensive care unit emergency bed should have four section lying surface with ABS vacuum from with antimicrobial property which should be easily removable, washable to maintain hygiene with integrated mattress retainer. 5. The bed should have four numbers of poly propylene (PP) moulded side board with drop down mechanism, completely collapsible to maintain zero transfer gap. 6. There should be 4 nos of bumpers given at the four corners made up of neoprene with excellent shock absorbing property. 7. There should be two nos of Cardio pulmonary Resuscitation(CPR) lever, one at either side of the bed for quick release of the back rest. 8. In order achieve the Deep Vein Thrombosis (DVT) position, the lower leg portion of the bed frame should have the provision of amszinc plated ratchet (referably Hettich/Equivalent make), the ratchet should be adjustable in eight different positions. 	2. The over all dimension should be 2200 mm (+/- 10mm) (L) x 1005 mm	electro mechanical actuators operated by soft touch electro mechanical actuators operated by soft touch attendant (nurses) control panel.	 Fully automatic wire remote control intensive care unit bed with back rest up down, knee rest up-down, trendelen burg position and reserve trendelen burg position, hi-low position controlled through noiseless 	SPECIFICATION
	in this regard.		Board should check physically during demonstration.	Procedure suggested for trail for board of officers
205 (mg)	ations	Receiping and	As per specification.	Resulted expected/ desired

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9. The back rest, knee rest, TR & ATR positions should be operated upto 70 degree respectively. Safe working load should be 300 kgs(+/-10kg). 10. The back rest should made of 6mm thick compact laminate with x-ray n cassette hold mechanism to perform x-ray on the bed itself. 11. The digitally patient weight display and recording facility must be in built with bed. 12. The head board and leg board should be with 3mm wall thickness. The head board leg board soulded perform x-ray on the bed itself. 13. There should be four nos. of rylon moulded patient lifting pole holders and salinest and holders provided at the four corners of the bed. 14. The bed should be four nos. of rylon moulded patient lifting pole holders and salinest and holders provided at the four corners of the bed. 14. The bed should be rounded patient lifting pole holders and salinest and holders provided at the four corners of the bed. 15. It should accessories like urine bag holders, M.S. chromeplatedimen tray and provision for bed extension up to 180 mm. 16. The bed should have provision for front loading medium sized MS made oxygen cylinder cage. 17. The unit should have the total load bearing capacity of 300 kg(+/-0kg). 18. The unit should have provision for front loading medium sized MS made oxygen cylinder cage. 19. The unit should have provision for front loading medium sized MS made oxygen cylinder cage. 19. The unit should have provision for front loading medium sized MS made oxygen cylinder cage.	16. 17. 18.	11. 12. 13. 14.	9. 7 70. 7	S.No. SPI	
Procedure suggested for trail for board of officers uilt he officers ay de	and provision for bed extension up to 1 The bed should have provision for front oxygen cylinder cage. The unit should have the total load bear The unit should work on power input of as appropriate fitted with Indian plug.	The digitally patient weight display and with bed. The head board and leg board should nead board, leg board & side boards stickers & made of moulded PP with nead & leg board should be removablease of use during emergency. There should be four nos, of nylon mand salinest and holders provided at the need should be provided with 12 moulded twin wheel castors with acility(Preferably Tente/Equivalent morrovided with MS round tube made auxit should accessories like urine bag holds to the castors of the castors with acility (Preferably Tente/Equivalent made auxit should accessories like urine bag holds.	The back rest, knee rest, TR & ATR poson degree respectively, Safe working load he back rest should made of 6mm thick cassette hold mechanism to perform x-loads.	ECIFCATION	
ure suggested for board of	80 mm. t loading medium sized MS made ing capacity of 300 kg(+/-0kg). 230v +- 15% and 50-60 HZ	be with 3mm wall thickness. The should have provision for colour anti bacteriallladditives. Both the le without locking mechanism for oulded patient lifting pole holders e four corners of the bed. 5mm (+/- Smm) plastic injection central and directional locking nake). The castors should be illiary break.	sitions should be operated upto ad should be 300 kgs(+/-10kg). k compact laminate with x-ray n ray on the bed itself.		
Resulted expected/c ed				Procedure suggested for trail for board of officers	
desir lesir		2 series		Resulted expected/desir ed	

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	В					0.1
 All the stainless steel should be seamless conforming to 304/16 gauge and polished finished. Powder coating is to be Bacteriostatic and thermosetting epoxy polyester, formulated to fulfill the requirements for bacterial protection, the fully and semi-motorized ICU Beds items where as applicable. Anti-rust, thermosetting epoxy polyester power coating should be used. All powder coating should be in Raal white. All powder coating parts must be in preferably raal white/equivalent & plastic rub bed parts in Grey 	Important common Technical Specification/Technical compliance condition needed to be added in the Tender document intended of requirement for compliance (whereas applicable should be strictly followed during fully and semi motorized ICU bed site ms manufacturing by the Manufacturer):	mattresses which should be covered by heavy helium material Which is water proof, flame retardant, vapour & S-ray permeable. The zip & stitches for the mattress cover should be concealed.	the bed.	high quality acrylic sheet of 4 mm thick of the size of 250mm (W)x 90mm (D) x 350mm (H) in the Foot end of the Bed should be provided. 20. Bed should be provided with telescopic IV pole. This SS made IV pole should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be of MS frame and SS made saline stand which can be fitted on should be saline stand which can be salined which can be sali	test, horizontal & vertical load tests for side rails, salt spray test, castor break test, pull test head and foot board. 19. The hospital bed Chart holder easy to fiz/removal type made with clear	The IV polest and should be the proof leading took and that it is not a second took and the second took an
				OEM should submit an undertaking and documents in this regard.	. Ξ	ail for board of
		D'Sme	ation of	Recom	As per specification.	expected/desi red

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Annexure-1 L (xxx)

				*		No.
requirements for bacterial protection against at least 2 commonly founded bacteria in hospital environment (Gram positive and Gram negative).	9. Al metal components should be pre-tread with zinc phosphating in 9 tank process and then powder coated with antimicrobial epoxy polyester powder coating to fulfill	phosphate and powder coated with antimicrobial and thermo setting epoxy polyester to control the bacterial growth.	where is applicable. 8. All the MŞ parts should be treated with nine tank pre-treatment procedure with zine	Tear of the product. 7. To ensure good quality welding "Co2 argon" process should be adhered to incase	 Thermo setting epoxy polyester powder coating must be done for a_P MS parts. Preferably Neoprene shoes/equivalent should be provided to avoid the wear 	SPECIFCATION
			~	in this regar	OEM should submit an undertaking and	Procedure suggested for trail for board of officers
		APSCM	~		As per specification.	Resulted expected/ desired

/. ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "CRASH CART TRULLEY

Specifications	Procedure suggested for trial by board of officers	Results expected/ Desired
Specification:	The board should check	As per
1. S.S. square tube frame.	physically during	specification
2. Top tray for monitor and pulse oximeter.	demonstration.	
3. Six removable bins.		
4. Two modular storage units of three drawers each one with a lock.	OEM should submit an	
5. Castors 125 mm, 2 with brake.	undertaking and	
6. Oxygen cylinder holder, IV rod, with cardiac massage board	documents in this regard.	
7. Manufacturer/Supplier should have ISO certification for quality standards. Should have local		
service facility and During Demo of Equipment all features asked in Tender should have to show	11.	
& justify them.	>)

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

8. QRS AND TDs of VACCUM SUCTION APPARATUS WITH VACCUM CUP:

SPECIFICATIONS		trial for Board of Officers desired
-	Noiseless Suction Machine less than<45db	Board should check
2.	It should have maximum vacuum -90 kpa with flow rate60 litres per min.	physically during specification
ω	It should be oil less and Maintenance free suction machine.	ation.
4.	It should have 2 different outlets to connect 2 jars which can be operated one by one	
	by touch button.	OEM should submit an
5.	It should be supply with 2 jars (Reusable) of 3litres.	undertaking and documents
6.	It should have display dial for showing vacuum and Knobto control Vacuum.	in this regard
7.	It should come with on /off foot switch for easy operating.	
.00	Should be made with high quality material	
STAND	STANDARD, SAFETY AND TRAINING:	
	It should have European CE/USFDA.	OEM should submit an As
2.	Should have mobility with antistatic castor with brake or provide with steel trolley	undertaking and documents specification in this regard.

9. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "EMBALMINGMACHINE"

S.No.	S.No. SPECIFICATIONS	Procedure suggested for Result expected/	Result expected
		trial for Board of Officers	desired
P.	Fluid delivery rate should be 10 Liters/hr	Board should check	As per
	2. Inner tank should capacity to store embalming fluid should be 5-10 liters physically	during	specification
	and should be made of stainless steel	ation.	•
	3. Pump: Pump should be of Electromagnetic Dosing pump with capacity		
	of 0-5 liters per hour and with pressure 3kg/cm2	OEM should submit an	
	 The equipment should be mounted on castors for easy movement and 	undertaking and documents	
	the grip should be provided for easy lifting	in this regard.	
	I.V stand fixed for monitoring cannulatubing and main cable		
	6. Indicators for mains on & in use should be present		
	7. The outer body should be of complete stainless steel		

Member-I | Member-III | Member-IV | Member-V | Member-V | Member-VI | Member-VIII | Member-IX | Member-X | Member-X | Member-XI | Member-XII | Member-XIII

Recommendati	(Dr. Rakesh Tiwari) CMO (SG) (Anaesthesia), ITBP Member-VII	(Dr. J Chatopadhayay) BSF Member-I	
Recommendation of ADG/med	(Dr. Shaifali Gupta) Comdt /Spl. Gr.I (Ophthalmology), ITBP, Member-VIII	(Dr. Rohit) Shyam Bobil) CMO(SG) (ENT) RH, ITBP, Gr. Noida Member-II	
	(Dr. Rajkamal Nimesh) Comdt /Spl. Gr-I (Surgery), ITBP, Member-IX	(Dr. Saquib Khan) CMO (OG) (Radiology) CRPF,	
	(Dr. Ph Gaitri Devi) Comdt./CDS (SG), (Dental), SSB	(Dr. R Kuppu Samy) CMO(SG) (Paediatrics) CRPF Member-IV	doc
APPROVED	(Dr. Neekal Kumar) CMO, (Medicine), ITBP Member-XI	ny) (Dr. Chandrima Kar) Comdt /Spl. Gr.I & PF (Obs Gyn), CRPF Member-V	monte in this record
NOT ATTROV	(Dr. Souphyesh Ghost Comdt./Spl. Gr.I (Pathology), ITBP Member-XII	(Dr. Anurag Jain) Contractual, Spl (Orthopaedics), CRPR Member-VI	

IG (Med.), RH, ITBP, Gr. Noida (Dr. A C Bhardwardn)

Presiding Officer

BORDER SECURITY

GENERAL

FORCE

logy), ITBP tt./Spl. Gr.I myesh Ghosh)

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LIST OF GENERAL EQUIPMENT

6 STRAIGHT CABINET	5 FLASH STERILIZER	4 SS TROLLEY SMALL FOR EQUIPMENTS		3 INSTRUMENT TROLLEY MEDIUM	2 Automated Torniquet System 3 INSTRUMENT TROLLEY MI	TEMPERATURE HYDROG Automated Torniquet Syste NSTRUMENT TROLLEY	1 ASP STERRAD 76 TO 100 TEMPERATURE HYDROG 2 Automated Torniquet Syste 3 INSTRUMENT TROLLEY	1 ASP STERRAD 76 TO 100LITRE CYLINDRICAL LOW TEMPERATURE HYDROGEN PEROXIDE GAS STER 2 Automated Torniquet System 3 INSTRUMENT TROLLEY MEDIUM
	LIZER	SMALL FOR EQUIPMENT	וויסרבר ואובטוסואו	TROLLEY MEDILIM	niquet System	TEMPERATURE HYDROGEN PEROXIDE GAS STERILISER Automated Torniquet System INSTRUMENT TROLLEY MEDIUM	76 TO 100LITRE CYLINI E HYDROGEN PEROXID niquet System TROLLEY MEDILINI	76 TO 100LITRE CYLINI RE HYDROGEN PEROXID niquet System
		PMENTS	CIVI			EROXIDE GAS STE	EROXIDE GAS STE	CYLINDRICAL LO
						TERILISER	OW FERILISER	OW
NO .	NO	YES (863 & 1318)	YES (863 & 1318)		No	No	No	NO BEDDED). IF YES THEN AVAILABLE OR NOT NO NO NO
NO ON	NO	NO	NO		No	No :	NO N	N AVAILABLE OR NOT NA

Member-II Member-III Member-IV Member-V Member-VI Member-VII Recommendation of ADG(med) Member-VIII | Member-X | Member-X | Member-XII | Member-XII

QRS/SPECIFICATIONS & TRIAL DIRECTIVES OF "AS PSTERRO 76 TO 100 LITRE CYLINDRICAL LOW TEMPERATURE HYDROGEN PEROXIDE GAS STERILIZER"

1		Procedure suggested for trail for board of officers
Alow temperature hydro high speed sterilization	Alow temperature hydrogen per oxide plasma/gas technology bases high speed sterilization system.	Board should check
 The sterilizer should use low temperature F Peroxide) plasma/gas sterilizer technology. 	The sterilizer should use low temperature H2Oz (Hydrogen Peroxide) plasma/gas sterilizer technology.	physically during demonstration.
 Should have cycle temp 	Should have cycle temperature of less than 55 degree Celsius.	:
4. Should be environment	Should be environment friendly and have notoxic by—products.	OEM should submit an
Should have sterilization	Should have sterilization chamber more than 100 litres usable	undertaking and
volume with removable shelf	shelf.	documents in this regard
6. Should have Microproce	Should have Microprocessor controlled system with clear user	
interface for control and	interface for control and display of cycle phases & parameters.	-
Should have in built prir	Should have in built printer and touch screen LCD control panel.	
8. Should not have a need	Should not have a need for to have additional Dryer Machine.	
Should have facility to s	Should have facility to store/upload data on Ethernet/USB port for	
sterilization cuclerec all and printing.	and printing.	
10. Should be easy to insta	Should be easy to install without and civil/plumbing work and should be	
mobile on wheels for easy movement		
11. Should completely mon	Should completely monitorrits operations with clean LCD display and	
alarms.		
12 Total cycle time should	12. Total cycle time should not be more then 40-50 minutes.	

Recommendation of ADGMED

Member-IX | Member-X | Member-XI

Member-XII

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1

Member-I

		Suggested for trail	
		for board of officers	expected/ desired
13. The concentration of hydro14. Must be able to sterilize floorof 1 mm and length of accessories like booster/a	 The concentration of hydrogen peroxide should to exceed 50% to 60%. Must be able to sterilize flexible lumened instruments with inside diameter of 1 mm and length of 1000 mm or more without any additional accessories like booster/adapter, proof of lumen claim should be attached 	Board should check physically during demonstration.	As per specification.
with the bid. 15. Should be able to sterilize rigid stainless stee inside diameter of 1 mm and length of 500 mm.	with the bid. 15. Should be able to sterilize rigid stainless steel lumened instruments with inside diameter of 1 mm and length of 500 mm.	OEM should submit an undertaking and	0
16. The system should operate on single/three additional requirement for civil work plumbing, wa	The system should operate on single/three phase supply with no additional requirement for civil work plumbing, water and drainage etc.	documents in this regard.	Recommen
17. There should be minimum	There should be minimum 10 installations with performance		AD
Certificates for quoted moc	Certificates for quoted model in India preferably in government		7
18. Should be supplied with al machine should be provide	Should be supplied with all accessories lie incubator, sealing machine. The machine should be provided with all the consumables needed to make the		C
machine fully function consumables required to re	machine fully function The machine should be supplied with all consumables required to run for minimum of 200 cycles.		
19. Should be supplied with pr	4		
20. Should be supplied with instrument tray mats (silicc	Should be supplied with minimum of six instrument tray and matching instrument tray mats (silicon)of three different sizes and lids.		
 Should also quote he price HOz Liquid Sterilant. 	 Should also quote he prices for tender bill for consumables:- HOz Liquid Sterilant. 		
ii. Chemical indictors trips	S.		
iii. Chemical indicator Marke	Chemical indicator Market record keeper(Card/Stickers) Biological indicator vials.		
	ous sizes.		
Should be ISO USFCA/Euro to be certified with EN ISO13937	Should be ISO,USFCA/European CE approved. The process of sterilizer has to be certified with EN ISO13937 (certificate should be attached).	>	
The land with the	2		

SI. No. Specifications Frocedure suggested of corrial by board of officers SPECIFICATION FOR AUTOMATED TOURNIQUET SYSTEM: Automatic Tourniquet System should be dual-port, dual-cuff system with physically microprocessor controls and dedicated ports for susplying and measuring demonstration. Pressure independently, so that it can be used for bilateral joint replacement Tourniquet should combine the latest in advanced tourniquet technology with the undertaking and well-established tradition of safety, reliability, and convenience. It should have documents in this the following Features: Ability to provide a specific Recommended Tourniquet Pressure (RTP) for each patient based on physiological characteristics. Limb Occlusion Pressure (LOP) feature, Dual cuffis: Dual port, colour coded Specifications demonstration. Procedures upgested of expected dependent of the cuff status when attempt is made to power down the machine Cuff Lockout Safety Feature Dual compressors to allow for independent control over cuffs "one" and cuff "two" which should be designed to provide most accurate readings: A company to the cuff status when attempt is made to power down the machine cuff signed to provide most accurate readings.		W 10 10 10 10 10 10 10 10 10 10 10 10 10			
Automatic Tourniquet System should be dual-port, dual-cuff system with physically during spec microprocessor controls and dedicated ports for supplying and measuring pressure independently, so that it can be used for bilateral joint replacement procedures. With the innovative Limb Occlusion Pressure (LOP)feature. The Tourniquet should combine the latest in advanced tourniquet technology with the undertaking well-established tradition of safety, reliability, and convenience. It should have documents in this the following Features: Ability to provide a specific Recommended Tourniquet Pressure (RTP) for each patient based on physiological characteristics. Limb Occlusion Pressure (LOP) feature Pressure (RTP) for each patient based on physiological characteristics. Should use ambient air Microprocessor Controlled Self-check calibration Audible and Visual Alarms Internal Pump for Fast Inflation Time Positive locking connectors Should automatically checks the accuracy of machine calibration every time the system is powered up Should alert the user of the cuff status when attempt is made to power down the machine Cuff Lockout Safety Feature Dual compressors to allow for independent control over cuffs "one" and cuff "two" which should be designed to provide most accurate readings.	SI. N			Procedure suggested for trial by board of officers	Results expected/ Desired
With the innovative Limb Occlusion Pressure (LOP)feature. The OEM should submit an should combine the latest in advanced tourniquet technology with the undertaking and hed tradition of safety, reliability, and convenience. It should have documents in this preatures: provide a specific Recommended Tourniquet Pressure (RTP) for based on physiological characteristics. Iusion Pressure (LOP) feature, • Dual cuffs: Dual port, colour coded ays armbient air sesor Controlled calibration devisual Alarms omatically checks the accuracy of machine calibration every time the wered up are the user of the cuff status when attempt is made to power down at Safety Feature ressors to allow for independent control over cuffs "one" and cuff should be designed to provide most accurate readings.	-	- > 1/4		٥	As per specifications
Features:- provide a specific Recommended Tourniquet Pressure (RTP) for based on physiological characteristics. lusion Pressure (LOP) feature, • Dual cuffs: Dual port, colour coded sys ambient air assor Controlled calibration d Visual Alarms mmp for Fast Inflation Time cking connectors omatically checks the accuracy of machine calibration every time the wered up at the user of the cuff status when attempt is made to power down at Safety Feature pressure line and pressure measurement line for cuff "one" and cuff should be designed to provide most accurate readings.				d submi	Res
provide a specific Recommended Tourniquet Pressure (RTP) for based on physiological characteristics. lusion Pressure (LOP) feature, • Dual cuffs: Dual port, colour coded ays ambient air ambient air assor Controlled calibration devisual Alarms and Visual Alarms are connectors omatically checks the accuracy of machine calibration every time the awered up are the user of the cuff status when attempt is made to power down at Safety Feature are sometial physiological differences in the patient pressure line and pressure measurement line for cuff "one" and cuff should be designed to provide most accurate readings.		+ -		⋽'	of mensel
lusion Pressure (LOP) feature, • Dual cuffs: Dual port, colourays ambient air ambient air ambient air assor Controlled calibration d Visual Alarms Imp for Fast Inflation Time cking connectors omatically checks the accuracy of machine calibration every wered up rt the user of the cuff status when attempt is made to pow ut Safety Feature oressors to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.		0 =	ourniquet Pressure (RTP) for	(d)	100 Cmx
ambient air ssor Controlled calibration d Visual Alarms imp for Fast Inflation Time cking connectors omatically checks the accuracy of machine calibration every wered up at the user of the cuff status when attempt is made to pow to safety Feature oressors to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			Limb Occlusion Pressure (LOP) feature, • Dual cuffs: Dual port, colour coded		9
calibration d Visual Alarms imp for Fast Inflation Time cking connectors omatically checks the accuracy of machine calibration every wered up int the user of the cuff status when attempt is made to pow ut Safety Feature oressors to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			Should use ambient air		-
d Visual Alarms imp for Fast Inflation Time cking connectors omatically checks the accuracy of machine calibration every wered up int the user of the cuff status when attempt is made to pow the user of the cuff status when attempt is made to pow the safety Feature oressors to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			Microprocessor Controlled Self-check calibration		
Imp for Fast Inflation Time cking connectors characteristics connectors omatically checks the accuracy of machine calibration everywered up at the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the patient or single pressure to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			Audible and Visual Alarms		
omatically checks the accuracy of machine calibration everywered up of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user cuffs "one" or cuffs the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			Internal Pump for Fast Inflation Time Positive locking connectors		
owered up of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power the user of the cuff status when attempt is made to power cuffs "one" status to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.			checks the accuracy of machine calibration every		
ut Safety Feature pressors to allow for independent control over cuffs "one" ssing the potential physiological differences in the patient pressure line and pressure measurement line for cuff "one" should be designed to provide most accurate readings.		• "	Should alert the user of the cuff status when attempt is made to power down	-	
"one" ent "one"			he machine		
ent "one"					
G		• •			
					<u> </u>

Member-II Member-III Member-IV Member-V Member-VI Member-VII Member-VIII Member-VIII Member-X Member-X Member-X Member-XII Member-X Member-X Member-XII Member-XIII

P.O.

Procedure sugger for trial by board officers Board should physically demonstration. OEM should subre undertaking documents in regard.	Utilization of the lateral knee probattery backuph was during a flated - Automatic report the cue operative limb Carrying Handle 5 yr warranty & of the mode and ards, Safe Should have a May preferable luivalent viz. I puipment for me The unit shall I to 0-50deg C and The unit shall I of relative huming the compliance Residues of compliance Residues.	pec	
Procedure sugger for trial by board officers Board should physically demonstration. OEM should subrundertaking documents in regard.	m signe -3 m see y costo e	ifications	
	board should physically demonstration. OEM should subnundertaking documents in regard.	dure sugges al by board o	

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



SI. Specifications No.		Procedure suggested for trial by board of officers	Results expected/ Desired
Log book with checklist. The engineer should	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.		3
Should have safe certificate / STQC report from ERTL.	Should have safety certificate from a competent authority CE / USFDA / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL.		Kecommentat-

3. QRS/SPECIFICATIONSANDTRIALDIRECTIVESOF"INSTRUMENT TROLLEY MEDIUM"

No.	Sl. No. Specifications
Α.	1. Frame, shelves, side rails made from stainless steel sheet
	2. Swivel wheels 10 cm
	3. Supplied with bucket and basin
	4. Number of shelves-01
	5. Dimensions- minimum 20 inch x 30inch
	6. Wheel diameter-10 cm
	7. Wheel type-castor
	8. Material-Good quality stainless steel
Ē	Standard, Safety and Training:
	 All instruments should be USFDA/European CE/BIS approved.
	2. Manufacturer should have IOS certification, where Indian standards are not
	available
	 Comprehensive warranty for daily, weekly, monthly and yearly maintenance Comprehensive training for technical staff and proper support services till familiarity with the system



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Member-VIII

Member-IX | Member-X | Member-XI | Member-XII

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	SI. No.	Specifications	Procedure suggested	Results
			for trial by board of officers	expected/ Desired
	C.	Documentation: 1. User/Technical/Maintenance manuals to be supplied in English 2. Log book with instructions for Daily, Weekly, Monthly and Yearly maintenance 3. The job description of the hospital technician, service engineer should clearly spelt out		Recon
г				(Jam)Cust
41		QRS/SPECIFICATIONSANDTRIALDIRECTIVESOF"S.S.TROLLEYSMALLFOREQUIPMENTS"	REQUIPMENTS"	
	No.	SPECIFICATIONS	Procedure suggested for trial by board of officers	Results expected/
	A.	Frame, shelves, side rails made from stainless steel sheet	Board should check	As per
		Supplied with bucket and basin	ally	specifications
			ation.	
		6. Wheel diameter-10cm	OEM should submit an	
		Wheel type-castor		
	D	8. Material-Good quality stainless steel	ents in	
	. !	A/European CE/BIS approved.	regard.	
		Comprehensive training for technical staffand proper comprehensive training for the comprehensive training for technical staffand proper comprehensive training for the	-	
77				
	C.	Documentation: 3. User/Technical/Maintenance manuals to be supplied in English		
HAA	The second second			
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Member-VIII

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5. QRS/SPECIFICATIONSANDTRIALDIRECTIVESOF"FLASH STERILIZER"

ノ -	1	>			
	-		13. The company should have installation in India.		
			13060 standard for small sterilizers.		
			12. It should be CE (European) and FDA (US) certified and should comply with EN		1660
			support for bags, Tray handles etc.		98
			holders, start up kit, traps of different sizes, Deionizer for connections to water,		
			11. The Sterilizer should come with standard accessories like sterilization trays,		
			have preloaded test programs for Bowie- Dicktestand Vacuum test.		
			10. Sterilization to be achieved at 134 degrees and 121 degrees. It should also		
-	-		locking mechanism.	-	
			9. It should have LCD display and RS 232 inter face. Should have automatic door		
			jacket and again stop ration of the steam generator without water.		
			8. It should have thermal fuse protection against overheating of chamber and		
			diagnostic system providing error codes on display in case of failure.		
			checking and control of the sterilization system. Should be complete auto		
	-	•	7. It should have fully microprocessor control system for fully independent		
	-		6. It should have an integrated water purification system.		
	7.0		5. Should have a robust doorable to with stand up to a ton of pressure.		
	\	regard.	quality stainless steel.		
CAND GMBI	100,00	documents in this	4. The sterilization chamber, jacket and steam generator should be made of high		
recommendation	recom	undertaking and	be less than 25 minutes and 10-15 minutes cycle time for unwrapped cycles.		
0.	0	OEM should submit an	3. It should be a B class sterilizer with cycle time for wrapped instrument should		
			2. It should have intergrated steam generator and vacuum pump.		1
			porous materials and should have cycles for prions also,		
	specifications	during	Chamber volume of 20 L for sterilization of wrapped, unwrapped, hollow and		
\ \ \	As per	Board should check	1. It should be a fully automatic table top high pressure steam sterilizer with	A	
	Desired				_
	expected/	Trial for board of officers			
	Result	Procedure suggested for Result	SPECIFICATIONS	SI. No.	
STATE OF THE PARTY				1	

6. QRS/SPECIFICATIONSANDTRIALDIRECTIVESOF"STRAIGHT CABINET"

				, A	SI. No.
	8. Carts should come with standard key lock, key less entry available 9. Frames: light weight aluminum 10. Base: durable high density polyethylene 11. Bumper: durable high density polyethylene 12. Corner extrusions: light weight aluminum 13. Cell panels: Durable ABS plastic 14. Hinges: Dull chrome plated steel 15. Door pulls: Dull chrome plated metal 16. Push handles: stainless steel 17. Doors: Tambour door counterbalanced, aluminum finish 18. Casters: Metal 5 inch medical grade plate caster 19. Locking system: Central locking system with key lock 20. Dimensions: Minimum 28 inch D x 57 inch Wx 80 inch H.		range of trays, baskets and other exterior accessories 4. Easy grip push/pull stainless steel handle 5. Side mounted accessory rail system with full line of height adjustable exterior	 Should be built using a light weight aluminum composite base & frame Aluminum finish, counter balanced, locking tambour doors Durable flex cell interior providing a modular storage system that acceptsa wide 	SPECIFICATIONS
4		undertaking documents in this regard.	OEM should submit an	Б	Procedure suggested for Result Trial for board of officers expect Desire
¥				check As per during specifications	Result expected/ Desired

Member-II Member-IV Member-V Member-VI Member-VII
Re commen dation of Assimal) 1 Member-VIII Member-IX | Member-X | Member-X | Member-XI Member-XII

21. Interior dimensions: 23 inch Dx48 inch Wx 64 inch H 22. Number of cells: Minimum 75 usable flex cell 23. Cart should be optimized for product specific storage 24. Interior and side accessories should be available
Procedure suggested for trial for board of officers
and the second s

(Dr. J Chatopadhayay) Member-I

RH, ITBP, Gr. Noida

(Dr. Rohit Shyam Bobil) CMO(SG) (ENT)

Member-II

(Dr. Saquib Khan) CMO

(Radiology) CRPF, Member-III

> (Dr. R'KuppulSamy) CMO(SG)

(Paediatrics) CRPF

Member-IV

(Dr. Chandrima Kar)

Comdt /Spl. Gr.I & (Obs Gyn), CRPF Member-V

CRPF Member-VI (Dr. Anurag Jain) Contractual, Spl (Orthopaedics)

(Dr. Rakesh Tiwari) CMO (SG)

ITBP Member-VII (Anaesthesia), Member-VIII

Kecommendation of ADG(med)

(Ophthalmology), ITBP (Dr. Sharfali Gupta) Comdt /Spl. Gr.I

(Dr. Rajkamal Nimesh) Comdt /Spl. Gr-I (Surgery), ITBP, Member-IX

> (Dr. Ph Gaitri Devi) Comdt./CDS (SG), (Dental), SSB

Member-X

(Dr. Neeraj Kumar) CMO, (Medicine),

Member-XI

(Dr. Soumyesh Ghosh) (Pathology), ITBP Comdt./Spl. Gr.I

Member-XII

IG (Med.), RH, LTBP, Gr. Noida (Dr. A C Bhardwajan

> APPROVEI NOT APPROVED

BORDER SECURITY FORCE DIRECTOR GENERAL

Presiding Officer