S/N6.08)

YES	YES (464 TO 498)	LAPAROSCOPE SURGERY SET	2.
YES	YES (1371)	EMBALMING MACHINE	1
	IF YES THEN MENTIONED SL.NO. OF PET		
(AS PER 100 BEDDED). QRs AVAILABLE OR NOT	IS IT AVAILABLE IN PET (AS PER 100 BEDDED).	N NAME OF THE EQUIPMENT	S.N
APPENDIX-1 H (i)			

Recommendation of ADG(med)

Member-I | Member-II | Member-IV | Member-V | Member-VI | Member-VII |

Member-VIII

Member-IX Member-XI Member-XII Member-XII

Recommended Not Recommended

1. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "EMBALMING MACHINE"

B		Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard. DEM should submit an undertaking and documents in this regard.	As per specification. As per specification.
В	Standard, Safety and Training:		
	1. All instruments should be USFDA or European CE approved.	hiyarany	ecification.
	notavailable	OEM should submit an	
		undertaking and documents in	
	4. Comprehensive training for technical staff and proper support services til familiarity with the system	illo legale.	
C.	Documentation:	Board should check physically	As per
	1. User/Technical/Maintenance manuals to be supplied in English		specification.
	2. Logbook with instructions for Daily, Weekly, Monthly	OEM should submit an	
	3. The job description of the hospital technician, service engineer	this regard.	

Member-I Member-III Member-IV Member-VI Member-VII

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Member-XII

CRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "LAPAROSCOPE SURGERY SET"

S.No.	SPECIFICATIONS	Procedure suggested fortrial for board of officers	Result expected/ Desired
Þ	High Definition 4 K Digital Camera- Qty 1 The system should have following features:	Board should check physically	As
	Digital matrix processing technology	during demonstration.	Specification.
		L	
	4. Universal camera head coupler	undertaking and documents in	
	_	this regard.	
	(minimum) native resolution and progressive scan technology both on camera		
	head and console		
	8. It should be compatible with Aspect ratio of 4:3 and 16:9		
	Image size & cross specialty standardization of the camera system, regardless of		
	10 Digital zoom white halance control and two peripheral controls on camera Head		
	11. Integrated Gain/Shutter/Enhancement with automatic brightness control		
	14. The system should be ready to- use as soon as it is connected to the camera		
	15. The system should be Menu driven, thus allowing the surgeon to program the		
	camera head functions as per the surgical needs & requirement.		
	Technical Specifications:		
	Image System: 1/3" Progressive Scan CCD	Board should check physically	As
	2. Pixels 1920 X 1080p pixels per chip (min)	during demonstration.	Specification
		C	
		OEM should submit an	
	Signal-to-noise ratio 65-75 dB	Ollouid	
	Video outros Divideo di la	indertaking and documents in	
	Video output: S-video signal	taking and documents	

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

Ċ			
HIGH RESOLUTION MONITORS- Qty 2 The system should have: 1. HDTV display in original 16: 9 HDTV format.	 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	 Standard, Safety and Training: Should be USFDA or European CE approved. 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. Documentation: 	o. Power Supply 100-240 VAC, 50/60HZ
Board should check physically during demonstration.	OEM should submit an undertaking and documents in this regard.	OEM should submit an undertaking and documents in this regard.	
As Specification.	As Specification.	As Specification.	
per	per	per	

Member-I Member-III Member-IV Member-V Member-VI Member-VIII Member-VIII Member-VIIII

Member-IX Member-X Member-XII Member-XII

2. 1080 pt 50 & 1080 pt50 displays possible. 3. Drip water protected, dust proof housing. 4. LED crystal display. 5. Max. Reacution or 1920x1080. 6. Desktop with pedestal. 7. Should nave the facility of PIP mode. 8. HD medical grade Monitor not less then 27 inch compatible with 4k digital camera. 9. with screen diagnon 12. State of PIP mode. 11. Bidghtess: 400 odms. 12. Maximum viewing angle: 178" vertical. 13. Contract sitio: 1000: 1 14. Reaction Tine- 9ths. 15. Reaction Tine- 9th setts. 16. Power Supply 100-240 VMc. 17. Streen Dimeristors: 573 x 418 x 88mm 18. Video pinguis: . 22 Dit. 2. 305 SDI, 11'S Video, 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video, 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video, 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video, 11'S Video, 11'S Cord, Pedstial. 19. Output: Tip VII, 11'S SDI) 11'S Video,	Member-I		0	256.70	
OEM should submit an undertaking and documents in this regard. OEM should submit an undertaking and documents in specthis regard. OEM should submit an undertaking and documents in specthis regard. OEM should submit an specthis regard. As undertaking and documents in specthis regard.	Member-III Member-V Member-VI Member-VIII Member-VIIII Se commendation of ADGCMED	The system should have:	<u>"</u>	वि	 1080 pt 50 & 1080 pt/60 displays possible. Drip water protected, dust proof housing. LED crystal display. Max. Resolution of 1920X1080. Desktop with pedestal. Should have the facility of PIP mode. HD medical grade Monitor not less then 27 inch compatible with 4k digital camera with screen diagonal "26", Aspect Ratio 16:9 HD format Brightness: 400 cd/m2 Maximum viewing angle: 178° vertical Contrast ratio: 1000: 1 Reaction Time - 8ms Rated power: 115 watts Power Supply 100-240 VAC Screen Dimensions: 673 x 418 x 88mm Video Inputs: 2* DVI, 2* 3G SDI, 1* S Video, 1* SOG, 1* RGBNGA, 1* RS 232, 1* RJ 45 Interface. Output: 1" DVI, 1* 3G SDI, 1* S-Video Accessories External 24VDC Power Supply, Mains Cord, Pedstial.
spec spec	Member-X Member-X		should taking and egard.	should taking and gard.	OEM should undertaking and this regard.
Per Per	×	>	As specification.	As specification.	

 Standard, Safety and Training. Should be USFDA or European CE approved. 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. 	2. Colour temperature 5500-6500k 3. Life of light bulb >= 30,000 hrs 4. Universal adapter for fibre optic cable 5. Efficient cooling technology in light source. 6. Degree of protection IPx1 7. 300 W 8. 220 Volts 9. Light Engine: Red, Green & Blue LEDs 10. Increased patient safety & added protection in OR with safe light technology 11. Intuitive simple user interface with LCD touch screen 12. Standby Mode 13. Universal Jaw Assembly to adapt any make of Fiber Optic Cable 14. More than 5000 Hours bulb life 15. Light intensity adjustment continuously adjustable from 0 to 100% manually
OEM should submit an undertaking and documents in this regard.	Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.
As specification.	As specification.
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Member-I Member-III Member-IV Member-V Member-VI Member-VIII Member-VIIII

Recommendation of ADG (med)

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



			D.	
 User/Technical/Maintenance manuals to be supplied in English User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	 Standard, Safety and Training. Should be USFDA or European CE approved. 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. 	 High flow with LCD display Microprocessor controlled & Software driven for upgradeability Soft approach pressure control for safe recovery of abdominal pressure Should have Neonatal mode & visual and audible alarms with min 0.1 L flow rate Internal leakage detection capability Integrated Gas heating Having internal venting system for safety Should have video on screen display Unit should include heated tubing, hose & yoke Should be able select either central supply (4.5 kg/cm2) input pressure from central supply as well as direct connection to high pressure co2 cylinder and should indicate the right inlet pressure of CO, gas supply of front panel of machine. 	FIBRE OPTIC LIGHT CABLE- Qty 1 1. Size should be diameter > 3.5mm, length 300 cm INSUFFLATOR- Qty 1 1. Flow rate 35- 45 Liter/mints	 Documentation: User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out
OEM should submit an undertaking and documents in this regard.	OEM should submit an undertaking and documents in this regard.	OEM should submit an undertaking and documents in this regard.	Board should check physically during demonstration.	OEM should submit an undertaking and documents in this regard.
As specification.	As specification.		As specification.	As specification.
per	рег		per	per

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Member-IX Member-X Member-XII Member-XII

Recommendation of Ass (med)

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 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	Should be USFDA or European CE approved. 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.	1. Wide Angle Full Screen, Autoclavable, Forward-Oblique and lateral scope 2. Optimal centre-to-edge resolution for enhanced picture quality 3. Angle of view: 30° and 0° of 10 mm diarneter - 01 each 4. Angle of view: 30° degree of 5 mm diameter- 01 no 5. Length 30 cm 6. Fiber optic light transmission incorporated 7. Standard ocular window for coupling the camera head 8. Scratch resistance sapphire coated tip lens Standard Safety and Training:
OEM should submit an As undertaking and documents in specification this regard.	OEM should submit an As undertaking and documents in specification. this regard.	Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.
As specification	As specificatio	As specification.
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 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	Should be USFDA or European CE approved. 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	Standard, Safety and Training:	Formats. Real time Broadcasting facilities over internet in HD formats should be there	Image File Format (TIFF) Videos: MPEG-1, MPEG-2, and MPEG-4 Should have CD-R, DVD-R, DVD+R (single session), DVD+RW Disc Recording	Multi session disc recording capability Should support file formats for Images: Ritman (RMP), JPEG, JPEG2K, Tagged	Should have touch screen (min 10 inch) control panel interface	Should have Disc Capacity of 250 GB/1 Tera bite	Res (1024 X 768), and Hi-Def (1280 X 1024)	Should be capable of Progressive scan image capture: Analog (640 x 480), Hi-	Should have video outputs S-Video, Composite, DVI & XGA (1024 X 768, 1280	(1024 X 768) and 1 High-Definition (1280 X 1024).	Should have video inputs minimum 2 nos S-Video 2 nos Composite 1 XGA	Should be real time, MPEG 2 HD, 1or 2 compression engine with full IBP	- Qty 1: The system should have:	HIGH DEFINITION DIGITAL DOCUMENTATION SYSTEM (RECORDER SYSTEM)
	OEM Should submit an undertaking and documents in this regard.									ills legald.	undertaking and documents in	OEM should submit an	during demonstration.	Board should check physically	
	As specification.												specification.	As	
	per													per	

Member-I Member-III Member-IV Member-VI Member-VII Member-VIII Member-IX Member-X Member-X Member-XI Member-XIII

Recommendation of Apolaned

 Grasping Forcep Fenestrated curved Fundus grasper: Atraumatic, fenestrated, curved grasping forcep with unipolar connection, insulated sheath, handle without ratchet. Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0cm 	 Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm. 	 Atraumatic serration, fenestrated, grasping forcep with unipolar connection, insulated sheath, handle without ratchet. 	Grasping Forcep Fenestrated :	 Double action jaws, rotating with connector pin for unipolar coagulation, size Smm, length 33-36cm, dismantling facility 	Grasping forceps- Babcock :	Reducer 11/5 mm:	 Veress needle of working length 13 cm with luer lock. 	Veress Needle:	 Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the canula should be 100-110 mm. 	for CO2 insufflation.	automatic valve to prevent damage of sharp instruments and 18quipme tip lens while passing through the cannula valve. It should have stopcock	 Cannula size:5mm diameter; should have multifunctional valve and 	Trocar & Cannula:	outlet of CO2 gas. The working length of the canula should be 100-110	 Trocar should have pyramidal tip with pin holes near the tip for safety 	stopcock for CO2 insufflation.	Cannula size: 11 mm diameter; should have multifunctional valve and	Trocar & Cannula :
01			9		01	02		02					04					03
														inis regard.	undertaking and documents in	OEM should submit an	during demonstration.	Board should check physically
																	specification.	As
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Member-II Member-III Member-IV Member-VI Member-VIII Member-VIIII

Recommendation of ADCOMED

Member-IX Member-X Member-XII Member-XII

		01 02 01 02 01 01 01 01	Tooth Grasping Forcep: Grasping forceps — toothed 2x 3 teeth, Double action jaws, rotating with connector pin for unipolar coagulation, size Smm, length 33-36cm, dismantling. Grasping forceps- Allis: Double action jaws, rotating with connector pin for unipolar coagulation, size Smm, length 33-36cm, dismantling facility Scissor curved Unipolar: METZENBAUM curved scissor, length of blade 12mm, connection for unipolar HF cable, dismountable into insert, tube and handle. Working length 36 cm, size: Smm, handle without ratchet. Hook Scissor: Hook scissor, with connection for unipolar HF cable, dismountable into insert, tube L Hook HF: L-shaped hook dissector with unipolar HF connection. J Shape Hook -5 mm, 33 cm monopolar Debakay Forceps- 5 mm,33 cm Alligator jaw forcep, 33cm Spatula/Blunt dissector with unipolar HF connection claw forceps: 10 mm
		02	 Unipolar curved rightangle dissecting and Grasping Forcep: Kelly curved dissecting and grasping forceps insulated, atraumatic, working length 36 cm, size: Smm, dismountable into handle, insert and working tube. Handle without ratchet.
		2	 Insert Forcep Unipolar: Insert forcep only Maryland type curved atraumatic jaw compatible with main Kelley curved dissecting forceps.
	OEM should submit an undertaking and documents in this regard.	02	 Unipolar curved Maryland dissecting and Grasping Forcep: Kelly curved dissecting and grasping forceps insulated, atraumatic, working length 36 cm, size: Smm, dismountable into handle, insert and working tube. Handle without ratchet.
/\s specification	Board should check physically during demonstration.	02	 Bowel Grasped fenestrated, size: 5.0mm, length 35-36cm, handle with ratchet, insulated shaft.

Member-III Member-IV Member-VI Member-VIII Member-VIIII
Re commen dation of ADS (MR)

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

specification.	V	02	Unipolar HF Cable: Unipolar HF cable suitable to connect with forcep and electrosurgical unit.
As	Board should check physically	01	Nathonson Liver retractor: Set of four sizes (45, 55, 78, 95 mm), sandblasted to eliminate light reflection.
		01	movement of the outer sheath, dismountable and distendable, size: 10mm, length: 36cm
		2 22	Needle Holder: Macro needle holder with tungsten carbide insert, ergonomic pistol handle, with disengageable ratchet, jaw curved to left, size: Smm, length: 33cm for use with suture material size: 0/0 to 7/0.
		2	Puncture Needle size: Smm, length 36cm
			5mm&10mm each with special handle with trumpet control for irrigation and suction with silicon tubing.
		9	Two Way Suction irrigation cannula, size:
		01	Washers: For 5 & 10 mm cannula and reducers
		91	more than one brand.
			more than one brand
		91	Haemolock clip applicator: 10 mm size. It should be compatible with
			be compatible with more than one brand.
			for Titanium clips with ratchet to lock the jaw holding the clip. It should
			Large clip applicator dismantable rotating size: 10mm, length 36cm,
		2	Clip Applicator:
			should be compatible with more than one brand.
			36cm, for Titanium clips with ratchet to lock the jaw holding the clip. It
			Medium Large clip applicator dismantable rotating size: 10mm length
		9	Clip Applicator:
		24	Bipolar HF Connecting cable
	aking and documents		dismantable, preferably wide jaw with spare insert and handle. Suitable bipolar HF cable 2 Nos. to be included along with it.
	OFM should submit an	9	Heavy Duty Robust Bipolar Forcep: Length: 36cm, 5 mm rotating
As specification.	Board should check physically during demonstration.	2	Spoon Forcep : Retrieval of foreign body/stones forcep, size 10mm without ratchet

Member-I Member-II Member-II Member-V Member-V Member-VI Member-VII Member-VIII Member-X Member-X Member-X Member-X Member-XII Member-XIII Member-X Member-X Member-XIII Member-XIII Member-XIII Member-X Member-XIII Member-XIIII Member-XIII Member-XIII Member-XIII Member-XIII Member-XIII Member-

nce d clearly	s are not noe es till	Acrylic 4.5mm 01 sterilizing the	on and 04	or 30 Kg. 02	e gas to 01	least 30 01 mis regard.	01
 User/Technical/Maintenance manuals to be supplied in English User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	All instruments should be USHDA or European CE approved. 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	l of G	Suitable Autoclavable plastic tray double tray for sterilization storage for hand instruments of minimum 20 hand instruments preferably from OEM.	CO2 Cylinder: D typewith hose pipe and regulator and connector 30 Kg. Carbon Dioxide bottle with pin index connection with wrench	HP Hose: Suitable high pressure hose pin index to connect the gas to insufflator, length: 1.0 meter.	10 0	Colpotomiser: 11 mm, with insulated ball-shaped sphere, s 40 mm and 35 mm consisting of Automatic Valve

Member-1 Member-11 Member-

Member-IX Member-X Member-XII Member-XII

 Documentation: 1. User/Technical/Maintenance manuals to be supplied in English 2. Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance 3. The job description of the hospital technician, service engineer should clearly spelt out 	 All instruments should be USFDA or European CE approved. 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 familiaritywith the system 	a	 The unit should be supplied with reusable irrigation and suction silicon tubing set 2 Nos. each. 	 and stand. The unit should be supplied with 1.0 Litre irrigation bottle sterilizable in autoclave with bottle cap attachment to connect tubing. 	2. The unit should be supplied with 1.5 Litre glass bottle with bottle cap	1. Compact suction and irrigation unit having Irrigation pressure not less	SPECIFICATION FOR SUCTION AND IRRIGATION DEVICE FOR		7. Protection of overload, short circuit and low battery.	6. Should use PWM technology with power conversion with single	22 requency between 50Hz + 2Hz		4. UPS — 2.0 KVA off line with One hour backup time(at 1200 Watts real
				this regard.	OEM should submit an undertaking and documents in	during demonstration.	Board should check physically			this regard.	OEM should submit an	during demonstration.	Board should check physically
						specification.	As					specification.	As ::

Member-IX Member-X Member-XII Member-XII

Mamber-I Member-III Member-IV Member-V Member-VI Member-VIII Member-VIII Member-VIII Member-VIIII

	¥				3.			
 Potential equalization connection to be provided at least 8 points. Preferably from OEM. 	 2. 5 Ampere socket, 10Nos, inbuilt with trolley to connect all electronicdevices.CO2 bottle stand should be integrated with trolley. 	ers, front lockable, high grade of electrical insulation and earth	having minimum three self in addition to with one drawer, with antistatic	1. Suitable Medical Grade video trolley to be supplied for mounting equipments	Video Trolley:	2. Silicon gas tubing with valve system.	1. Monopolar and bipolar cautery cable.	Ancilliary Equipment
		set.	each	For	02		each	02
	documents in this regard.	submit	21.0		1	demonstration.	physically durin	Board should check
	. ā	<u>ה</u>					during specification	ck As per

Dr. J Chatopadhayay)

Member-I

(Dr. Rohit Shyam Bobil)

RH, ITBP, Gr. Noida CMO(SG) (ENT)

Member-II

Member-II

(Dr. Saquib Khan) CMO (Radiology) CRPF, (OG)

(Dr. R'Kuppu Samy)

(Paediatrics) CRPF CMO(SG)

Member-IV

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

(Dr. Chandrima Kar)

Member-V

(Dr. Anurag Jain) Contractual, Spl (Orthopaedics),

CRPF Member-VI

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

C6mdt /Spl. Gr.I

(Dr. Rakesh Tiwari)

TBP Member-VII (Anaesthesia), CMO (SG)

Member-VIII

(ecommendation of ADG(Med)

CDS (SG), (Dental), (Dr. Gaitri Devi) Member-X

(Dr. Neera Kumar) CMO, (Medicine), Member-XI

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

APPROVED

NOT APPROVED

Member-XII

IG (Med.), RH, ITBP, Gr. Noida

BORDER SECURITY FORCE DIRECTOR SENERAL

Presiding Officer

S.N	NAME OF THE EQUIPMENT	IS IT AVAILABLE IN PET (AS PER 100 BEDDED).	QRS AVAILABLE OR NOT
		IF YES THEN MENTIONED SL.NO. OF PET	
ш	DEEP VEIN THROMBOSIS PUMP (DVT)	NO	NO
2	HARMONIC DEVICE AND SCALPEL	NO	NO
ω	DIODE LASER SYSTEM FOR EVLA AND PROCTOLOGY	NO	NO
	APPLICATIONS		
4	LIGA SURE (VESSEL SEALING DEVICES)	NO	NO
5	CYSTOCOPE (FLEXIBLE)	YES (793 TO 794)	NO
6	FIBRE OPTIC ENDOSCOPE	NO	NO
7.	INSTUMENT TROLLY MEDIUM	YES (863 & 1318)	NO
.∞	SS TROLLEY SMALL FOR EQUIPMENTS	YES (863 & 1318)	NO
9.	FLASH STERILIZER	NO	NO
10	STRAIGHT CARINET	NO	NO

Member-I Member-III Member-IV Member-V Member-VI Member-VII Member-VIII Recommen lation of ADG (over) Member-VIII Member-IX | Member-XI | Member-XII

ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "DEEP VEIN THROMBOSIS PUMP"

S.No.	SPECIFICATIONS	Procedure suggested for trial for board of officers	Result expected/ Desired
Ņ.	 The system should offer sequential gradient circumferential compression It should be a Microprocessor driven controller and fully automatic It should give personalized compression to prevent blood pooling It should have inbuilt display which shows the compression pattern of both the 	Board should check physically during demonstration.	As per Specification.
	limbs 5. It should offer optimal pressure of 40-50 mmHg at ankle 6. It should offer optimal pressure of 40-45 mmHg at calf	OEM should submit an undertaking and documents in this regard.	
	 Length of power supply cord should be minimum 04 meter Warranty: minimum 05 years 		
В.	Standard. Safety and Training:		
	 All instruments should be USFDA / European CE / BIS approved. 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 		
Ċ.	Documentation:	OFM should suhmit an undertaking	AS per
	 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance 		cifica
	/ The Job description of the hospital technician, service engineer should clearly		

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

ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "HARMONIC DEVICE AND SCALPEL"

S.No.	SPE	SPECIFICATIONS	Procedure suggested for trial for board of officers	Result expected/ Desired
A.	ACI	ULTRA SONIC CUTTING AND COAGULATING DEVICE WITH ADVANCE	Board should check physically	As per
	BIPO	BIPOLAR VESSEL SEALING SYSTEM	during demonstration.	specification.
	. 1	System should have a universal single generator to connect Ultrasonic energy		
	റമ	and Advanced RF (advance bipolar) energy instruments to reduce the clumsiness inside the theatre and increase the ergonomics.	undertaking and documents in	
	2	Ultrasonic and bipolar energy in the system must work separately. Should	this regard.	
		deliver pure ultrasonic energy and RF energy separately.		
	Ċ	Oltrasonic energy system snould nave light weight transducer for open surgery and lanaroscopic		
	4.	RF and Ultrasonic energy should be capable of sealing up to 7mm blood vessel		
		System should have automatic instrument recognition		
	6	System should have the ability for software updates via USB memory stick.		
		System should provide Class 1 protection against electric shock		
	įα	system should have a single root switch for operating ultrasonic energy or advanced RF energy instruments to reduce confusion as well as space during		
		surgery		
	9.	System should have the ability to select hand switch or foot switch activation or	LV	
		both for Ultrasonic and advanced RF energy instruments and the ability to		
	10.	System should not have minimal lateral thermal spread more than 1 mm.		
	11.	System should have onscreen warning display system for generator		
		overheating, generator software upgrade, handpiece errors and instrument errors		
	12.	System should be compatible for open surgery and for laparoscopic surgery.		
		System should have different gradable power settings levels with power level		
	_	display for ultrasonic energy instruments.		
	14.	System should be equipped with advanced RF energy technology that provides		
	\ 	temperature controlled energy delivery and temperature should not exceed		

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Member-VIII

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	OEM should submit an undertaking and documents in this regard.	 17cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well a s lymphatic with15 mm active blade & 240-degree activation, triggers support multiple hand positions 2NOS. Ultrasonic hook with changeable length from 10-14cm for open surgery 2 NOS. 	
As specification.	Board should check physically during demonstration.	Open Surgery Instruments (Ultrasonic cutting and coagulation device): 1. 9cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with16 mm active blade & 240-degree activation, triggers support multiple hand positions2NOS	
		ACESSORIES	D.
		 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out 	Ü
		 Comprehensive warranty for daily, weekly, monthly and yearly maintenance Comprehensive training for technical staff and proper support services till familiarity with the system 	
		 All instruments should be USFDA / European CE / BIS approved. Manufacturer should have IOS certification, where Indian standards are not available 	
		Standard, Safety and Training:	ë
		 System should consist of following hardware and accessories Generator, Foot switch, cable, Transducers, Adaptors, Generator cart 	
	OEM should submit an undertaking and documents in this regard.	 System should have changeable length ultrasonic blade/hook for open surgery. System should have (45 to 90 degrees on both side) articulating probe for laparoscopic surgery for better flexibility and maneuverability. 	
specification	g demonstra	16. All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues	
As	Board should check physically	15. System should have Advanced RF Energy hand instruments that provide tissue/ vessel seal strength to withstand bursting pressure of 7 times the systolic pressure	

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Recommendation of ADGMED

Member-X Member-X Member-XI Member-XII

Member-I	
Member-II Member-IV Member-V Member-VI Member-VIII Member-IX Member-X Membe	Open Surgery Instruments (Bipolar advance vessel sealing device): Hand probes with Smm shaft diameter, around 25cm long with Smm tip width. 2 nos. Laparoscopic Surgery Instruments (Ultrasonic cutting and coagulation device): A. Smm Lap Hand Activated Curved Coagulating Shears capable of sealing ergonomic handle- 02 nos. Smm Lap Hand Activated Curved Coagulating Shears capable of sealing ergonomic handle- 02 nos. Smm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels up to 7 mm in diameter, around 35 cm shaft length, Laparoscopic surgery instrument (Bipolar advance vessel sealing device): Articulating Laparoscopic probe probes with Smm shaft diameter, 35cm long with Smm tip width, Probe should have ability to rotate 360° and articulate 45° to 90° both sides- 02 nos.
nember-XII Member-XII	

QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "DIODE LASER SYSTEM ELVA AND PROCTOLOGY APPLICATIONS

As specification.	during demonstration.	al patierit database	Foot switch	
		al patient database	USB key, manual and personal patient database	
			Safety glasses for doctors	
		Sno.	Laser compatible practoscope	
		Sno.	Catheter set for bare fibres	
		Sno.	Catheter set for radial fibres	
		Sno.	Conical fibre	
		Sno.	Radial optical fibre	
		Sno.	Optical bare fibre	
		Sno.	Accessories	
		F o %°C to +25°C relative humidity from 30% 6₀	during work	
		KC	Laser weight	
		Should be compatible with AC adaptor	Power supply of the Laser	
		Single phase 100-240 VAC: 50-60 Hz; max 90 W	Power supply of AC adaptor	
		Internal, air and thermoelectric cooling	Cooling system	
		Should display error message on screen		
		1. Colour, wide display with digital touch screen	Display	
		Micro rocessor	Controller	
	this regard.	Foot switch	Beam emission initiation	
	undertaking and documents in	10 ms- 10 sec	Pulse time	
	OEM should submit an	Continuous or modulated	Oeain ode	
		635 nm/ 1, 5m W max	I Aiming beam	
specification.	during demonstration.	12-15 watts	Max power	
As	Board should check physically	1470 nm	Wavelength	
		Diode, Semiconductor	Lase Type	Ą
Result expected/ Desired	Procedure suggested for trial for board of officers		SPECIFICATIONS	O.NO.

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



			C.													
The job description of the hospital technician, service engineer should clearly spelt out	Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance	 User/Technical/Maintenance manuals to be supplied in English 	Documentation:	with the system	 Comprehensive training for technical staff and proper support services tillfamiliarity 		Manufacturer should have IOS certification, where Indian standards are not	medical directory number by European notified body	 All instruments should be USFDA / European CE / BIS approved with 4digit 	Standard, Safety and Training:	3 year warranty & 5 year CAMC after warranty from the date of OK report	and installation before acceptance	Demonstration of equipment and training to be provided after completing supplies	All power cords and operating length should be > 3 meter	AC Adaptor	Power cord
					this regard.	OEM should submit an undertaking and documents in		during demonstration.	Board should check physically As			(this regard.	aking and document	OEM should submit an	
								specification.	As							
									per		in the					

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

4. QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF LIGA SURE (VESSEL SEALING DEVICES)

S.No.	SPECIFICATIONS	Procedure suggested for trial for board of officers	Result expected/ Desired
A.	1. Possible to seal all type of vein, artery or tissue bundle encountered in different		
	type of surgery 2. Should be able to diagnose the type of tissue in the instrument laws and deliver	Board should check physically	As per
			Opcomodion.
	Seals must withstand 3x the normal systolic pressure	2 hmit	
		CEM SHOULD SUBINITE AN	
	"	this regard	
	6. Contain seal foot paddle as well as Bi-polar foot paddle	illo legald.	
	successful seal cycle is complete- eliminating the guesswork		
	8. Seal formed by melting of collagen & elastin within sealing & dissection in both		
	10 mm & 5 mm laparoscopic handsets		
	Indicator for Re-grasp should be activated as necessary		
	 Seal strength should be measured by Bar indicator on the system generator 		
	11. Minimal sticking, tissue charring and reduced thermal spread, unlike standard		
	bipolar and monopolar electrosurgery		
	12. Provide visible translucent seal as an integration of seal integrity		
	13. System should be light in weight		
	14. Seal cycle with auto stop features		
	15. Machine should give indicative beep sound to signify that sealing has been		
	completed		
	16. Error monitoring system		
	 Memory button to recall most recently used intensity and power settings 		
	18. Must work on Bipolar Radio Frequency Generator and forcep principle in Marco		
	& Micro Bi-polar mode		
	19. System should be capable of accepting any two pin banana cable instrument		
	from any make		

Mamber-1 Member-11 Member-11 Member-VI Member-VI Member-VIII Member-VIII Member-VIIII Member-VIIII

Member-IX Member-X Member-XI

Member-XII

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 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and yearly maintenance. The job description of the hospital technician, service engineer should clearly spelt out 	Documentation:	 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 	Standard, Safety and Training: 1 All instruments should be USEDA / Furnnean CE/ RIS approved.	Bi-Polar vessel sealing device should be compatible to work in normal saline media to operate in BPH (TURP)	Seal: 150W Voltage: 170v - 270V, 50Hz	Macro Bi-Polar: 95W Bi-Polar: 95W	Output Characteristics	<u>B</u>	Mode:- A73 kHz Sinusoid Bulsod	electromagnetic interference to video equipment used in operating room	specifications for "Defibrillator Proof designation and IEC 60601-2-2	currents. It is type CF isolated (floating) output and posses no fibrillation danger
and documents in this regard.	rtaking											
	As per Specification											

Member-1 Member-11 Member-11 Member-1 M

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

O.NO.	OF ECIFICATIONS	Procedure suggested for trial for board of officers	Result expected/
ŗ	VIDEO PROCESSOR WITH LIGHT SOURCE AND MONITOR		
		Board should check physically	As per
	2. Must have HDTV imaging	during demonstration.	Specification.
		OEM should submit an	
	Automatic brightness control	this regard	
	processing) with RGB and digital output.		
	11. Compatibility with Gastroscope and Colonoscope and side viewing		
	Duodenoscope.		
	 Image storage and retrieval facility and freeze with simultaneously live display of multiple images 		
	13. Preferably 21 I CD colour medical grade monitor with picture is picture facility		
	 Processor should be compatible for future upgradation on Endosono, Enteroscope and Side Viewing Duodenoscope. 		
	Standard, Safety and Training:		
	 All instruments should be USFDA or European CE approved. Manufacturer should have IOS certification, where Indian standards are not 		
	 Comprehensive warranty for daily, weekly, monthly and yearly maintenance Comprehensive training for technical staff and proper support services till familiarity with the system 		

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

	, p	
 Standard, Safety and Training: All instruments should be USFDA or European CE approved. 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 	 Build in HDTV compatible CCD with close focus observation range from 3mm or better. Should be suitable for real time NBI/FICE/I-Scan. Direction of view should be zero degree. Minimum of 140 degree field of view Depth of field at least from 2 mm to 100 mm or better. Angulation of tip: up 150 degree, down 150 degree, right 150 degree and left 150 degree or better. Insertion tube diameter of less than 13 mm. Distal end diameter of not more than 14 mm. Instrument channel diameter should be 3.5 mm or more. Working length should be atleast 1600 mm. Should be compatible with the video system specified. Should have separate locks for up-down and left-right knobs. Should be fully submersible in disinfection solution. Minimum visible distance of instrument used through channel should be Smm or closer from distal end. Auxiliary water jet channel for mucosal cleaning should be there. Built in HDTV compatible CCD with close focus observation range from 3 mm or better. 	 Documentation: User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out
	Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.	OEM should submit an undertaking and documents in this regard.
	As Specification.	As Specification.
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Member-IX Member-X Member-XII Member-XII

													C.	
 All instruments should be USFDA or European CE approved. Manufacturer should have IOS certification, where Indian standards are not available Comprehensive warranty for daily, weekly, monthly and yearly maintenance 	Standard, Safety and Training:	 UPS to take care of the above equipment in case of power failure. Mobile cart with suitable compartment to house all the above equipment including computer with extension board. 	UPS	 External 2 TB hard disc-05 Nos. Preloaded with original windows and anti-virus with 1 yr validity. 	 Preloaded with office package —Microsoft office latest with license media kit for atleast 1 year. 		9. Optical scroll mouse 10. Multimedia speakers		•	4. 1 IB HUD or more.		 Intel Pentium i7 processor with HT tech 3.0 GHz or better. 	HARDWARE FOR RECORDING AND PRINTING	 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearly spelt out
														OEM should submit an undertaking and documents in this regard.
						- 8								As specification.
														per

Member-IX Member-X Member-X Member-XII Member-XII

													D.						
6. 95% uptime warranty & repair action should be taken within 24 hrs of equipment	5. The shortlisted bidder will have to give demonstration of their guoted model	4. The bidder should enclose the original product data sheet. The serial number of	3. Company should give undertaking regarding the spares availability of the quoted	2. Company should have an established Registered Service Centre with address &	1. 5 year warranty & 5 yr comprehensive maintenance contract should be provided	WARRANTY	Section of the second of		4. Suction channel knob-05 Nos for each scope. 5. Air water channel valve -05 Nos for each scope.			1. Reusable metallic biopsy forceps for use with upper GI endoscopes-05 Nos	ESSENTIAL ACCESSORIES FOR GASTROSCOPE & COLONOSCOPE TO BE QUOTED SEPARATELY.	spelt out	The job description of the hospital technician, service engineer should clearly	 Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance 	1		familiarity with the system
									this regard.	undertaking and documents in	n harit		Board should check physically / during demonstration.						
												opecification.	As						
													per						

Member-II Member-III Member-IV Member-VI Member-VII
Recommendation of ADSCARd

Member-VIII Member-IX Member-X Member-XII Member-XII

 User/Technical/Maintenance manuals to be supplied in English Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance The job description of the hospital technician, service engineer should clearlyspelt out 	 All instruments should be USFDA / European CE/ BIS approved. Manufacturer should have IOS certification, where Indian standards are notavailable Comprehensive warranty for daily, weekly, monthly and yearly maintenance Comprehensive training for technical staff and proper support services tillfamiliarity with the system 	7. fallure & in case repair takes time then replacement of instrument should be provided with in 24 hrs or should be adjusted in warranty, accordingly. Standard Safety and Training.
OEM. should submit an undertaking and documents in this regard.		
submit an documents in		
As per specification.		

Member-II Member-III Member-VI Member-VI Member-VIII Member-VIII Member-VIII Member-IX Member-X Member-X Member-X Member-XII Member-XIII Member-X Member-X Member-X Member-XII Member-XIII



ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "CYSOSCOPE (FLEXIBLE)"

This set should include a Forward oblique 30° telescope, 4 mm diameter, autoclavable, length 30 cm, fibre b. optic light transmission incorporated- 02 nos c. Forward oblique 0° telescope, 4 mm diameter, autoclavable, length 30 cm, fibre optic light transmission incorporated- 01 nos d. Oblique 30° telescope, 4 mm diameter, autoclavable, length 30 cm, fibre optic light transmission incorporated- 01 nos e. Oystoscope- 4 mm diameter, autoclavable, length 30 cm, fibre optic light transmission incorporated- 02 nos e. Oystoscope- Urethroscope sheath, 19/19.5 Fr with obturator and 2 luer-lock connector f. Oystoscope- Urethroscope sheath, 19/19.5 Fr with obturator and 2 luer-lock connector g. Oystoscope- Urethroscope sheath, 27/273 Fr with obturator and 2 luer-lock connector h. Telescope bridge with lockable channel j. Optical grasping forceps, double action jaws for DJ Stent removal- 01 pcs length 40 cm-01 pcs l. Sachse Urethrotome set: The set should have 21 Fr Urethrotome sheath with
Procedure suggested for trial for board of officers Board should check physically during demonstration. OEM should submit an undertaking and documents in this regard.

		æ	
System should have Electrosurgical unit Footswitch Bipolar passive working element	k. Saline coaquiation: 2 or more different strength L. Base frequency: 350 kHz m. Protection against electric shock: Class I type CF n. Weight: Should not be more than 15 kg o. Automatic smoke evacuation facility	a. Output mode- Monopolar, Bipolar and Saline b. Monopolar cutting: Pure, Blend c. Monopolar coagulation: Spray d. Bipolar coagulation: Soft, Hard f. Saline cutting: Pure , Blend g. System should have vessel sealing upto 7 mm, suitable reusable instrument for sealing and cutting simultaneously should be provided h. 5 mm for laparoscopic surgery- 02 nos i. 10 mm for open surgery- 02 nos j. In case of disposable instruments 03 instruments each should be quoted.	be compatible with following procedures- i. Saline TUR ii. Conventional monopolar TUR iii. Bipolar/ saline Enucleation of prostate iv. Open Monopolar v. Open Bipolar vi. Laparoscopic monopolar viii. Laparoscopic bipolar viiii. Open vessel sealing ix. Laparoscopic vessel sealing

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Reception en dation of ADJOCATE

 Monopolar passive working element Bipolar HF cable Monopolar HF cable Rotatable outer sheath 26 Fr/ 24 Fr, ¹/t stopcock- 01 pcs Resection inner sheath 24 Fr/ 22 Fr with obturator and with/ without stopcock- 01 pcs 2 way irrigation port for 24 Fr/ 22 Fr with obturator and with/ without stopcock- 01 pcs 2 way irrigation port for 24 Fr/ 22 Fr sheath for intermittent flow TUR Compatible visual obturator- 01 J. System should be supplied with compatible electrodes 8 compolar cutting loop electrodes- 08 pcs Monopolar cutting electrodes- 08 pcs Monopolar cutting electrodes- 08 pcs Monopolar cutting electrodes- 06 pcs Bipolar necide electrodes- 06 pcs Bipolar necide electrodes- 06 pcs Bipolar enucleation electrodes- 06 pcs Bipolar standard enucleation electrodes- 06 pcs Bipolar enucleation electrodes- 06 pcs Bipolar enucleation electrodes- 06 pcs Bipolar button electrodes for plasma vaporization- 02 pcs Bipolar standard enucleation electrodes- 06 pcs Bipolar enucleation electrodes- 06 pcs Bipolar button electrodes for plasma vaporization- 02 pcs Bipolar button electrodes for plasma vaporization- 02 pcs Bipolar standard electrodes- 06 pcs Bipolar button electrodes- 06 pcs Bipolar cutting electrodes- 06 pcs Bipolar cutting electrodes- 08 pcs<th>3 12 → 12</th><th>8.4.</th><th>N -1</th><th>K</th><th></th><th></th><th>_</th><th>_</th><th>•</th><th></th><th></th><th>ب</th><th></th><th>_</th><th>343</th><th>•</th><th></th><th></th><th>•</th><th></th>	3 12 → 12	8.4.	N -1	K			_	_	•			ب		_	343	•			•	
	Maintenance manuals to be supplied in English structions for Daily, Weekly, Monthly and Yearly maintenance tion of the hospital technician, service engineer should clearly:	e warranty for daily, weekly, monthly and yearly maintenance training for technical staff and proper support services tillfamil	ındards are	andard. Safety and Training:	Light guide cable, 3.5 mm, 3 meter- 02 pcs Ellik's evacuator- 02 pcs	Bipolar enucleation electrodes- 06 pcs	Bipolar button electrodes for plasma vaporization- 02 pcs	Bipolar needle electrodes-06 pcs	Bipolar cutting electrodes-08 pcs	Monopolar coagulation roller electrodes- 06 pcs	Monopolar cutting loop electrodes- 08 pcs		Compatible visual obturator- 01	2 way irrigation port for 24 Fr/ 22 Fr sheath for intermittent flow TUR	01 pcs	Resection inner sheath 24 Fr/ 22 Fr with obturator and with/ without stopcock-	Rotatable outer sheath 26 Fr/ 24 Fr, ¹ /t stopcock- 01 pcs	Monopolar HF cable	Bipolar HF cable	Wonopolar passive working element

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ORS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "INSTRUMENT TROLLEY MEDIUM"

S.No.	SPECIFICATIONS
	A (15)
	Flame, snerves, side rails made from stainless steel sheet Swivel wheels 10 cm
	Supplied with bucket and basin
	4. Number of shelves-01
	5. Dimensions- minimum 20 inch x 30 inch
	6. Wheel diameter- 10 cm
	7. Wheel type- castor
	8. Material- Good quality stainless steel
	Standard, Safety and Training: 1 All instruments should be LISEDA / European CE/ BIS and an annual should be LISEDA / European CE/ BIS and an annual should be LISEDA / European CE/ BIS and an annual should be LISEDA / European CE/ BIS and an annual should be LISEDA / European CE/ BIS and an annual should be LISEDA / European CE/ BIS and an annual should be liseday.
	2. Manufacturer should have IOS certification, where Indian standards are not available
	 Comprehensive warranty for daily, weekly, monthly and yearly maintenance
	4. Comprehensive training for technical staff and proper support services till familiarity with the system
	Documentation:
	 User/Technical/Maintenance manuals to be supplied in English
	Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance
	 The job description of the hospital technician, service engineer should clearly spelt out

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Member-VIII Member-IX Member-X Member-X Member-XII Member-XII



QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "S.S. TROLLEY SMALL FOR EQUIPMENTS"

S.No.	SPECIFICATIONS 1 Frame shelves side rails made from stainless stool shoot
À	 Frame, shelves, side rails made from stainless steel sheet Swivel wheels 10 cm
	Supplied with bucket and basin
	4. Number of shelves-01
	5. Dimensions- minimum 18 inch x 20 inch
	6. Wheel diameter- 10 cm
	7. Wheel type- castor
	8. Material- Good quality stainless steel
В	Standard. Safety and Training: 1. All instruments should be USFDA / European CE/ BIS approved
	Manufacturer should have IOS certification, where Indian standards are not available
	 Comprehensive warranty for daily, weekly, monthly and vearly maintenance
	 Comprehensive training for technical staff and proper support services till familiarity with the system
C.	Documentation:
	 User/Technical/Maintenance manuals to be supplied in English
	2. Logbook with instructions for Daily, Weekly, Monthly and Yearly maintenance
	The job description of the hospital technician, service engineer should clearly spelt out



QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF "FLASH STERILIZER"

S.No.	SPECIFICATIONS	Procedure suggested for trial for board of officers	Result expected/ Desired
Ą	 It should be a fully automatic table top high pressure steam sterilizer with chamber volume of 20 L for sterilization of wrapped unwrapped hollow and 		
	porous materials and should have cycles for prions also,	during demonstration.	AS pecification per
	It should have intergrated steam generator and vacuum pump.		
	3. It should be a B class sterilizer with cycle time for wrapped instrument should be	OEM should submit an	
	less than 25 minutes and 10-15 minutes cycle time for unwrapped cycles.	undertaking and documents in	
	4. The sterilization chamber, jacket and steam generator should be made of high	this regard.	
	quality stainless steel.		
	Should have a robust door able to withstand upto a ton of pressure.		
	It should have an integrated water purification system.		
	 It should have fully microprocessor control system for fully independent checking 		
	and control of the sterilization system. Should be complete auto diagnostic		
	system providing error codes on display in case of failure.		
	8. It should have thermal fuse protection against overheating of chamber and jacket		
	and against operation of the steam generator without water.		
	9. It should have LCD display and RS 232 interface. Should have automatic door		
	locking mechanism.		
	10. Sterilization to be achieved at 134 degrees and 121 degrees. It should also have		
	preloaded test programs for Bowie-Dick test and Vacuum test.		
	11. The Sterilizer should come with standard accessories like sterilization trays,		
	holders, start up kit, traps of different sizes, Deionizer for connections to water,		
	support for bags, Tray handles etc.		
	12. It should be CE (European) and FDA (US) certified and should comply with EN		
	13060 standard for small sterilizers.		
	13. The company should have installation in India.		

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QRS/SPECIFICATIONS AND TRIAL DIRECTIVES OF " STRAIGHT CABINET"

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8. Carts should come with standard key lock, keyless entry available 9. Frames: lightweight aluminium 10. Base: durable high density polyethylene	Side mounted accessory rail system with full line of height adjustable exterioraccessories Minimum 5 inch medical grade castors Options should be available with left or right centre column removed to fit doublewide shelves	accepts a widerange of trays, baskets and other exterior accessories Easy grip push/pull stainless steel handle	Aluminium finish, counterbalanced, locking tambour doors Durable flexcell interior providing a modular storage system that	Should be built using a lightweight aluminium composite base &	SPECIFICATIONS
	documents in this regard.	ıld submit	ally ally astration.	200	Procedure suggested fortrial for board of officers
			during Specification.	>	Result expected/ Desired

Member-II Member-III Member-IV Member-V Member-VI Member-VIII Member-VIII Member-IX Member-X Member-X Member-X Member-XIII Member-X Member-X Member-XIII Member-XIII



. J Chatopadhayay) BSF Member-I

(Dr. Rakesh Tiwari) CMO (SG)

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

(Dr. Rajkamal Nimesh) Comdt /Spl.

Gr-I (Surgery), ITBP,

Member-IX

ITBP, Member-VIII

ITBP Member-VII (Anaesthesia),

> (Dr. Rohit Shyam Bobil) CMQ(SG) (ENT)

RH, ITBP, Gr. Noida Member-I

(Dr. Saquib Khan) CMO (OG) (Radiology) CRPF,

Member-III

CMO(SG) (Paediatrics) (Dr. R Kuppu Samy) CRPF Member-IV

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

(Dr. Anurag Jain) Contractual,

Spl (Orthopaedics),

(Dr. Neeraj Kumar) CMO (Medicine), ITBP Member-XI

(Dr. Gaitri Devi) CDS (SG), (Dental),

Member-X

CRPF Member-VI

Comdt./Spl. Gr.1 (Pathology) (Dr. Soumyesh Chosh)

Member-XII

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

Recommen lation of ADMMed Presiding Officer

APPROVED NOT APPROVED

BORDER SECURITY FORCE DIRECTA GENERAL