Annexure-A

List of Items		
S. No.	**PARTICULARS**	**QUANTITY REQUIRED (approx.)**
1)	A.E.D (automated external defibrillator)	12
2)	Collapsible chair cum trolley stretcher	49
3)	SCOOP stretcher	88
4)	SPINE BOARD WITH STRAPS AND HEAD BLOCKS	26
5)	PULSE OXIMETER: Finger Tip	1000
6)	SUCTION APPARATUS A.C & D.C (Portable)	142

Item No 1: A.E.D (Automated External Defibrillator)	
S.No.	**Description of Technical Specification**
1	The device should have FDA-USA/European CE approval and should be in accordance with ILCOR – ECC / AHA-2010 or latest guidelines.
2	The offered product is to be covered under warranty of a minimum of 3 years effective the date of delivery and acceptance of materials by the purchaser.
3	The device is to be rugged and motion tolerant. To this extent the device- AIS 125 certified equipment shall be preferred
3.a	Should withstand a drop from a height of a minimum of 0.75m and be fully functional (including non-disconnection of battery) after the fall.
3.b	Should withstand vibrations and variegated accelerations of dynamic environment in the moving ambulances and be fully functional (including non-disconnection of battery) exposed to such vibrations and accelerations.
3.c	Should detect heart rhythm correctly (Accurately) while in motion.
4	Energy levels:
4.a	Biphasic wave form only.
4.b	b. 1st and subsequent shocks should be of same energy (Fixed Energy Protocol)/Fixed Current Based Also Acceptable
4.c	The Machine should be set to deliver fixed energy between 120-200J for adults. The range is given to accommodate different technologies and waveforms that are discussed in the ILCOR COSTR - 2010 document.
4.d	The machine should have paediatric mode.
4.e	The energy delivery in paediatric mode should be set at lower level than that for adults and should not be more than 50J. This should be the most effective energy level in accordance to the technology used in the machine. It is desirable that the supplier provides evidence for the same.
4.f	The manufacturer would commit in writing regarding the effective energy level that the machine is be set. (Subjected to effective energy required as per the technology and waveform of specific product).
5	Battery:
5.a	If the battery is inbuilt and not detachable, the entire machine should be replaced with a new unit in case of any malfunction.
5.b	There should be no possibility of either displacement or disconnection of batteries or connections given the dynamic/mobile environment.
5.c	Life of battery should be sufficient to deliver a minimum of 100 shocks or last a

	minimum of 2 years
5.d	Indicator for the life of the battery in terms of
5.d.i	Battery level (from full to critical) – mandatory
5.d.ii	number of shocks remaining - Desirable feature
5.d.iii	The number of hours it can run - Desirable feature
5.d.iv	Critical level battery – Mandatory
6	The machine should have automatic Self calibration to ensure readiness status and capability to deliver shock at the set level of energy. This self-check is essential in such cases where the battery needs to be reinserted. This feature needs to be supported by either audio or visual prompt.
7	Should not weight more than 4 Kilograms with Battery.
8	The machine should be Semi-automatic.
8.a	The feature required is that the machine should analyze the rhythm and charge when required and the shock should be delivered only on pressing the flashing button.
9	Defibrillating pads are to be supplied 4 in numbers (2 Adult and 2 Paediatric) – Universal pads desirable along with the machine. The pads are to be disposable.
10	Audio Visual prompts – prompts are as below.
10.a	Prompts during analysis of rhythms and shocks – Mandatory
10.b	Metronome for the compressions and ventilations with a facility to switch on and off- Desirable
10.c	If the machine is not automated to detect the paediatric pads, it should have audio-visual prompts which indicate the paediatric or adult mode that it is in.
10.d	Audi-visual prompts for low battery and critical level of battery
11	AED should have proper mount for securing the machine firmly on flat interiors of ambulance. Machine should be easily detachable.
12	After sales support:
12.a	All requests (service and training) from Purchaser for any kind of after sales support needs to be addressed, training should be given at the time of installation of the equipment at site.
12.b	Bidders have to clearly furnish the details of
12.b.i	SPOC details - Local contact numbers (mobile and landline numbers) of the Service personnel.
12.b.ii	All the expenses incurred for rendering service and training shall be borne by bidder (within warranty period of the machine)

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Item No 2: Collapsible chair cum trolley stretcher	
S.No.	**Description of Technical Specification**
1	Automatic Loading, made of aluminium alloy.
2	Collapsible. Wheeled to slide into the ambulance with ease without damaging the ambulance floor.
3	One person should be able to raise and lower it into an ambulance easily.
4	Provision for head end elevation adjustable. Sitting posture for breathless patients -Maximum Angle of the Back 60°.
5	The telescopic mechanism should not come apart while the head end is raised.
6	Side Railings to prevent fall of patients either side and to hold medical equipment
7	IV fluid holding rod to go with the Stretcher
8	Should be light, safe and reliable trouble free.
9	Levers to control front and hind legs to fold while loading the stretcher in to the ambulance.
10	Lock to lock & unlock the legs to prevent collapse of the stretcher while standing
11	The wheels should have 150mm diameter with ball bearings to ensure smooth rolling and ensure maximum comfort to the patient.
12	Locks for the wheels.
13	Straps 3 in number to restrain the patient.
14	Fixing devices to secure the stretcher in place not allowing side to side or vertical movements in the ambulance while on run.
15	50 mm thick high density foam mattress with Head rest -up holstered with water proof and fire proof
16	Net weight: 40kg or less
17	Bearing Pressure or minimum load: 159Kgs.
18	Product dimensions: 190*54*90 cms(Approx) +/-10 % tolerance acceptable
19	Manufacturer should provide list of disinfectants and cleansing agents for clean and disinfection.
20	Stretcher should have front and back small sliding wheels.
21	Should have ISO 13485/European CE.

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Item No 3: SCOOP STRETCHER	
S.No.	**Description of Technical Specification**
1	Should be light, safe and reliable. Made of aluminium alloy
2	Clutch Design (Lateralized / in center) so that the stretcher can be divided into left and right halves.
3	Adjustable length according to patient's height.
4	Easy to lock and unlock
5	3 Quick release buckle belts
6	Product dimensions: 190*54*90 cms(Approx) +/-10 % tolerance acceptable
7	Net weight: 9Kgs (approx.)
8	Stretcher bearing: 159kg
9	Manufacturer should provide list of disinfectants and cleansing agents for clean and disinfection.
10	**Should have ISO 13485/European CE.**

Item No 4: SPINE BOARD WITH STRAPS AND HEAD BLOCKS	
S.No.	**Description of Technical Specification**
1	High Density Poly ethylene - Single piece
2	Rigid , Light & Floatable
3	Resistant to bumps and corrosion
4	Nonabsorbent, immune to infiltrations
5	Easy to clean- water & soap should be enough.
6	X ray & MRI compatible
7	Net weight: 9Kgs Load Capacity : 159 Kgs
8	L*W*H : 184 * 45 * 5(approx.)
9	Laerdal Rigid Head Blocks
10	Manufacturer should provide list of disinfectants and cleansing agents for clean and disinfection
11	**Should have ISO 13485/European CE**

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Item No 5: PULSE OXIMETER: Finger Tip	
S.No.	**Description of Technical Specification**
1	SpO2 Measuring Range: 0%-100%
2	LED Display
3	Pulse Rate Measuring Range: 30bpm-250bpm
4	Pulse Wave Display: columniation display and the waveform display.
5	Lightweight, convenient handheld
6	Accurate during motion and low perfusion
7	Saturation accuracy
8	Perfusion: 0.02% - 20%
9	Resolution - Saturation (%SpO2): 1%
10	Saturation: 70% to 100%
11	No Motion: Adults, Paediatrics: ±2 digits
12	In Motion: Adults, Paediatrics: ±3 digits
13	Neonates: ±3 digits
14	Low Perfusion
15	Adults, Paediatrics: ±2 digits
16	Neonates: ±3 digits
17	Range of Display : 0 or 1% to 100%
18	Pulse Rate Range : 25 - 240 bpm
19	Pulse Rate (bpm) Resolution : 1 bpm
20	No Motion: Adults, Paediatrics, Neonates: ±3 digits
21	Motion: Adults, Paediatrics, Neonates: ±5 digits
22	Should have ISO 13485 & European CE.

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Item No 6: SUCTION APPARATUS A.C & D.C (Portable)	
S.No.	**Description of Technical Specification**
1	Should be AC, DC, and foot operated Suction Pump.
2	0 to 30 Lits flow rate
3	High Vacuum : -300 mm of Hg & High Vacuum of - 800 mm of Hg
4	Portable & with a mounting bracket.
5	Battery back up of 90 minutes minimum- rechargeable in ambulance
6	Collection bottle 600 ml capacity and e-Sterilizable
7	Overflow protection ensured
8	Weight not more than 5 Kgs
9	Should have ISO 13485/European CE