Annex02

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	pints
		Equipment and the accessories proposed shall include (standards of quality and production of their class)		*
		material, excluding medical hardware, shall have national and international quality certificate		*
EMS AMBULAJ NCE		The vehicle with accessories proposed shall be the latest model of its type on the production line of the original producer. Renovated, modified second- hand systems, equipment, and appliances or those involving used items and materials shall not be accepted.		*
	General	system and all the parts and the accessories related with it shall operate in compliance with each other and be under the warranty and the responsibility of the contractor firm or bidder submitting the proposal		*
	Requirement	all electrical equipment for medical use in the vehicle shall be operational with main voltage of 220V 50HZ and compensate +/- 10Vchange in voltage		*

Power(HP)	Min.170	*
type	6 Cylinder or 4 Cylinder	
Fuel type	Petrol or Diesel	
Fuel system	fuel injection	*

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 Cooling system	Water cooled		*
Fuel economy	(average)max .12.5 L/100 KM		*
Cruising range	Ability to cover a distance of 600 km without refueling on intercity roads		
Displacement (cc)	Max. 3800 cc		*
Torque (NM)	Min 350NM		*
Temperature condition	Vehicle shall operate in ambient Temperature of min (-)30°C max(+) 60°C with an adequate performance		*
Exhaust emission	According to EURO V		*
Engine location	Front		*

SUBJECT	FEATURES	REQUIR EMENTS	Bidder's Specification	poin ts
	type	Automatic or manual Gear box		*
Transmission	operation	Min 6 speed		*
	Traction/drive system	R.W.D(rear wheel drive)		*
S u s p e n	Front	Independent: double wishbone with torsion bar or Transverse Leaf spring Or Macpherson Strut Stabilizer bar Shock absorber		*
s i o n	Rear	Rigid (parabolic leaf spring) Hydraulic double acting shock absorbing		*
	Туре	Power assisted – Dual Circuit		*
Brake &	Front	Ventilated disc		*
performance	Rear	Disc and Drum		*
	Safety system	ABS and ESP		*

	Ring Diameter	15 or 16 inch	
	Max Speed	180 Km/h or above	*
	Acceleration	0-85 km Max. 35 min isri4374	*
	Air bags	Driver s cabin shall be equipped with min 2 air bag	*
	Wheel base	Min. 3100 (mm)	*
	Туре	Left hand drive(L.H.D)	*
steering	Power	Power assisted steering	*
weight	pay load(kg) (passenger type)	Pay load with uneven load distribution Max. 1200Kg	*
		Shall be multiply adjustable	*
safety drivers cab	seat	Three point seat belts with tension meters for driver and co-driver	*
		Head lamp range adjustable	*

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	points
	Overall Length	5400 to 6200(mm)		
	Overall Height	Max. 2800(mm)		
	Overall width	Max. 2200(mm) without mirror		
	Drive cab	2 Doors		

			rechined Specification 1 of Timbulance Emergency Week	
			Double-wing or Tailgate	*
	Doors	Rear door	H≥900 and W≥900	
			One or two sliding doors	*
		Sliding door	Oxygen cylinder must be external loading for two sliding type	
	Tailg	ate height	In the open position min. 1800mm	*
	Patient h	cab floor eights	Max. 750(mm)	*
Patient cab dimensio	1	ength	Min. 2400(mm)	*
	,	width	Mid-level min. 1300(mm)	*
ns interior	ŀ	neight	Min. 1100(mm)	*

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	points
	radio	Origin type		
	mirror	Origin type		

	1	Technical Specification 1 of Timbulance Emergency Wiedle	201 200	
	windows	It must allow direct face-to-face contact with the driver. The opening part of the window should have a maximum area of 0.12 square meters A Curtain shall be handing in the patient 's cab to prevent light from patient's cab to driver's cab A windscreen defrosting system operatable when the road Ambulance is stationary or mobile.		
	Fire extinguisher	Two (ABC dry chemical, carbon dioxide) min. 2kg unit, in a quick-release bracket, one mounted in the driver's cab and one in the patient's cabin.		
		Anti skid- Washable- High Resistant- Fire resistant- Can be disinfected with disinfectant		
Pat	Floor covering	anti bacterial floor covering (resistant to radiation and chemicals) shall be easily clean		
ient 's cab		The covering of joints (corners, etc.) where the side-walls and covering meet shall be sealed and bordered with corrosion resistant and the covering shall extent at least 5cm up the sidewalls.		
	windows	All doors shall have windows and 2/3 of the glass surfaces of the		
		patient cabin shall be tinted. The Interior of the body shall be free of all sharp projection. Exposed edges and corners shall be broken with o radius.		
	Interior surface	surface material joints shall be smooth and impervious		
	Cabinet – drawers and bench	drawers shall be secured against self-opening and should be equipped with locks		

_	1	Technical Specification 1 of Ambulance Emergency Medic	al Sel vices
		One bench fixed on the right side of the main stretcher Dimensions shall be suitable for 2 persons equipped with 2 points safety belt The bench must be box type with top open door which control with 2 or 3 gas spring It shall be furnished for extra patient Cabinet shall be made of PVC. Coating of cabinet doors shall be white color	
	windows	Patient compartment should have enough windows with min total surface area of 1 square meter 2/3 of the glass surfaces shall be tinted	
	doors	Shall be capable of being positively restrained in the open position	
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	Seat	one seats shall be fixed above the stretcher	

	Seat	one seats shall be fixed above the stretcher	
Stretcher	Туре	The base support shall be built from stainless steel or aluminum	
base support	- 1		

UBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	points
	main battery	Min. capacity of 80 (Ah) 12V		
	additional battery	Min. capacity of 80 (Ah) located outside the patient cab.		

	alternator	Min. 1200 w which could feed each one of two accumulators separately and hardware present in the ambulance required	
		Vehicle shall be furnished with rectifier which could charge the accumulators when the vehicle is not operative.	
	rectifier	One 220 v sockets shall be fitted externally at the patient compartment (driver's side) so that when the ambulance stopped all the internal sockets and electrical system must be active. In this position the engine must not be starting.	
		There will be an automatic system to cancel charging when the accumulators are fully charged.	
		All the sockets shall be protected against current leaks.	
	Inverter	An inverter fed from the 12v accumulators shall be provided on board which is capable of delivering 800 w. regulated AC power when the ambulance is running	*

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	
Patient's cab illumination		LED lighting lamps shall provide min.100 lux power illumination around the patient area and min.30lux-power for surrounding area		

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification
Electrica l system	The ambulance must be equipped to (4) Electric systems	Basic system in non – equipped vehicle Supply system for body mounted devices Supply system for compartment Supply system for communication	
Sire	Siren	A siren with a three different tones and Min. power 100 w	
n – light ing	Rotary beacon	LED Light bar suitable for width of ambulance	
spea king	Flashing light	Two flashing orange lights at the rear door and one on each side	
	Flood light	It shall be fitted at the rear which activated when the rear door is opened	
		A public address system (Microphone + external speaker + amplifier)	
	Speaker	A hands free interphone system (1 speaker in driver cab and 1 speaker in patient compartment)	

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification
system	Ventilation	Which shall provide a Min. of 20 air changes per hour	

	Two separate air conditioning for both driver's cab and patient's compartment with min 7.5 kw compressor which can be controlled separately and independently and compatible with EN1789 standard. Or isiri 4374	
Air conditioning	High quality air condition system suitable for ambient temperature of up to 43 °C and 90% humidity It shall be able to decrees from (32°C) temperature inside the patient's compartment to (27°C) during 15 Minutes and also after 30 minutes shall be able to decrease to 22 °C	
	Fitted with temperature controller for maintaining suitable temperature during a trip.	
	Two heating system for both driver's cab and patient's compartment which can be controlled separately and independently.	
	This system shall be such that given outside and inside of -20°C the heating up to at least 5°C shall not take longer than 15 Minutes.	
Heating System	After 30 minutes a temperature at least 22°C shall be reached in the patient's compartment. The heating shall be adjustable by a thermostat in such a way that the temperature does not exceed ±5 degrees.	

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification
Control	Control panel	It shall be installed in patient cab which is available easily for patient compartment attendant.	

panel and Noise	Items on control panel	Illumination Heating system ventilation internal communication		
	Interior noise level	Max. 78 db according to EN 1789 2006 or isiri 4374		
	Oxygen outlet	Shall be fitted above the patient head on the wall		
	Oxygen equipment	Humidifier – flow motor – outlet piped to cylinders storage.		
SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification	
	Exterior painting	Must be white color		
	Symbol	(Star of life) must be located to the right – left – rear and roof		
Paint and marking	Ambulance	The mirror image of the word (Ambulance) located in the front		
	Color band	In case UNFPA submitted request to supplier prior to delivery		

SUBJECT	FEATURES	REQUIREMENTS	Bidder's Specification
	Vehicle (Van or chassis)	According to ISO, SAE, DIN or ISIRI standard	
Stand ard	Patient Compartment	According to EN1789: 2006 or ISIRI 4374	
	Complete Ambulance	It shall meet ISIRI 4374 at minimum stage.	
Other s	Guaranty	50000 km operation or 24 months from acceptance of ambulance whichever occurs earlier.	
	After Sale Service with Spare parts	10 Years	

In case of vehicle technical differences ISIRI 4374 will be considered as the guideline.

Carrying 2 sleeping patients or one sleeping patient and 2 seated patients should be considered and an interior design enabling to have both options is preferable in case of possibility of taking plate.