EMS
Emergency Mobile Systems

EMS Compliance for the acquisition of medical transport (A2 type ambulance) according to the needs of IMSP Cardiology Institute .

Schedule of Requirements and Technical Specifications	Offered technical specification	
Type A2 EMERGENCY AMBULANCES	**1 unit**	
1. GENERAL REQUIREMENTS		
Type A2 ambulance – the ambulance intended for the unassisted medical transport of one or more patients on stretchers and chairs, which do not present medical-surgical emergencies, being equipped with the minimum equipment and materials necessary to provide first aid in case of displacement.	**FORD TRANSIT 350L VAN, 2.0 Liters Diesel TYPE 4x2 RWD, 170HP** VIN: NM0EXXTTREPT55671 or equivalent	
1.1 Norms and standards		
The applied legislation for the elaboration of technical specifications:	RESPONSIBILITY OF MERCURIY TRADE	
• Law of the Republic of Moldova about medical devices no. 102 from 9 June 2017;		
• European standard EN 1789:2007+A2:2014 (E) regarding medical vehicles and equipment, as amended.	European standard EN 1789:2007+A2:2014 (E) regarding medical vehicles and equipment, as amended.	
• The medical devices meet the requirements foreseen in the European Directive 93/42/CEE regarding medical devices;	The medical devices meet the requirements foreseen in the European Directive 93/42/CEE regarding medical devices;	
• The medical devices fully correspond to EN 1865 (specifications for stretchers and other equipment for transporting patients by ambulances), when other indications are not given.	The medical devices fully correspond to EN 1865 (specifications for stretchers and other equipment for transporting patients by ambulances), when other indications are not given.	
• The medical devices possess the following:	The medical devices possess the following:	
a) Declaration of conformity to the European Communities requirements issued by the manufacturer for the produced medical device;	a) Declaration of conformity to the European Communities requirements issued by the manufacturer for the produced medical device;	
b) Declaration of conformity to the European Communities requirements in force for produced devices, where appropriate;	b) Declaration of conformity to the European Communities requirements in force for produced devices, where appropriate;	
• The manufacturers of medical devices follow the quality standard ISO 9001/2008 (quality management system) with subsequent amendments.	The manufacturers of medical devices follow the quality standard ISO 9001/2008 with subsequent amendments.	
A margin of +/-5% is accepted for the technical parameters of the vehicle and the medical compartment.		
The year of production of the ambulance car not older than the year 2022.	**Will be 2023 YM**	
1.2 Type of the car's body		
1. The ambulance is built in a single piece van type with an integrated cabin	will be built from a single piece of van type with an integrated cabin	

(containers, suv type ambulances or added compartments provided for patients are not allowed). Covering superstructure made of plastic is not accepted.		
2. Ground clearance minimum 200 mm.	**200 mm, in function of vehicle manufacturers original available feature will be provided**	
2. PERFORMANCES		
2.1 Engine:		
● cylinder capacity 1 800 - 2 200 cm 3 ±5%;	**1995 cc**	
● fuel: diesel;	Diesel	
● Minimum Euro 6;	Euro 6	
● Minimum 150 HP	**170 HP**	
2.2 Security systems:		
• Anti-lock electronic system (ABS).	Anti-lock braking system (ABS).	
• Electronic stability system (ESP).	Electronic Stability Program (ESP).	
• Assisted servo (hydraulic or electro-hydraulic or fully electric)	Rock and pinion power steering, hydraulic assisted	
• Audio or video parking assistance control or combined.	Audio or video parking assistance control	
2.3 Traction:		
• Manual or automatic gearbox.	**Manual transmission, 6+1**	
• The ambulance has 4x2 wheel drive (preferably front wheel drive)	**4x2 traction Rear Wheel Drive**	
• The ambulance is equipped with steel wheels, winter/summer tires according to the season of delivery and a spare wheel of the same size as the car is equipped with.	Will be equipped with steel wheels, winter/summer tires according to the season of delivery and spare wheel, with the same dimensions as the car is equipped with.	**T1**
2.4 External appearance:		
The ambulance is white in color with the following inscriptions and markings	Will be in white colour with the following inscriptions and hallmarks:	
On the front:	On the front:	
- "AMBULANȚA", inverted blue print; the international emergency medical assistance sign "Star of Life", (six blue arms).	- "AMBULANȚA", inverted blue print; the international emergency medical assistance sign "Star of Life", (six blue arms).	
• On both sides of the body:	On both sides of the body:	
- The international emergency medical assistance sign "Steaua Vieții" (six blue arms).	- The international emergency medical assistance sign "Steaua Vieții" (six blue arms).	
- "TRANSPORT PACIENȚI" blue.	- "TRANSPORT PACIENȚI" blue.	
- Orange stripes, depending on the height of the ambulance.	- Orange stripes, depending on the height of the ambulance.	
On the back:	On the back:	

- „AMBULANŢA” in blue.	- „AMBULANŢA” in blue;	
- On the window - two international emergency medical aid signs "Star of Life" (six blue arms).	- On the window - two international emergency medical aid signs "Star of Life" (six blue arms).	
- The inscriptions are reflective / fluorescent.	- will be reflective / fluorescent.	
3. ELECTRICAL REQUIREMENTS		
3.1 System for visual and acoustic alarm.		
• The ambulance will have both warning systems: visual and acoustic.	Will have both visual and acoustic warning system.	
• The various components of the visual warning system will be electrically powered by means of a general switch that will connect the alarm system to the vehicle's electrical system.	Will allow the possibility to broadcast the necessary information to the people outside the car by using a microphone from the driver's cabin.	
• The sound system will work even if the engine is turned off.	The sound system will work even if the engine is turned off.	
• The light sign will comply with the technical requirements set forth in R 65 EEC - UN.	Will follow the technical requirements stipulated in R 65 CEE - ONU.	
• The front of the ambulance will be equipped with a blue beacon, fixed on the driver's cabin or incorporated. This will be visible from the front and sides of the ambulance. A speaker for the siren, with a variable intensity of the acoustic signal.	Will be equipped with a blue beacon, fixed on the driver's cabin or incorporated. Will be visible from the front, back and sides of the ambulance. The light bar will be equipped with a speaker for a siren and a microphone, with variable acoustic signal intensity.	**T2**
• At the rear, the ambulance will be equipped with a blue beacon.		
• The right side and rear of the ambulance will each have one LED bulb, facing the ground at a 45° angle. It will be activated by means of separate buttons for each group (right-side and rear) located in the driver's compartment, as well as when opening the door.	Will each have one LED light bulb, directed towards the ground under 45 degrees angle. The operation will be done through separate buttons for each group (right lateral and back) placed in the driver's compartment as well as at opening the door.	**T5**
• The siren will be activated from the driver's compartment with a general on-off button.	Will be activated from the driver's compartment using a general on-off button.	
• The ambulance will have anti-fog lights installed in the front - rear.	The ambulance will have anti-fog lights installed in the front - rear.	
3.2 Battery and alternator		
• The construction of the battery and all its connections shall be designed to prevent short-circuiting due to carelessness.	Will be designed so as to prevent a short circuit due to lack of attention.	
• The electrical system must be able to store a reserve of electrical energy to power the engine.	Will be able to store a reserve of electricity to restart the engine	
• Minimum capacity/power (according to EN 1789, as amended).	Minimum capacity/power (according to EN 1789, with subsequent amendments).	
• Starting battery: nominal voltage of 12 V minimum 80 Ah.	- 12 V min. 80 Ah.	

• Additional battery: nominal voltage of 12 V minimum 80 Ah.	- 12 V min. 80 Ah.	
• Alternator: minimum power 1500 W/12 V;	- minimum power 1500 W/12 V.	
• Inverter 12V-220V, minimum power 1800W.	- Inverter 12V-220V, power 2000W.	**T6**
3.3 Electrical installation		
• The electrical system of the ambulance must contain at least four separate sub-systems, as follows:	Will contain at least four separate sub-systems as follows:	
- The basic system for the vehicle;	Basic system for the vehicle.	
- Electrical energy supply system for medical devices;	- Electrical energy supply system for medical devices;	
- The electrical energy supply system for the medical compartment;	- The electrical energy supply system for the medical compartment;	
- Power supply system for communications.	- Power supply system for communications.	
• Sockets for powering consumers will be provided as follows:	• Sockets for powering consumers will be provided as follows:	
- 12 V sockets for medical devices in the medical compartment	- 12 V sockets for medical devices in the medical compartment	
- at least 2 pieces;	- at least 2 pieces;	
- 12 V sockets in the driver's cabin	- 12 V sockets in the driver's cabin	
- at least 2 pieces;	- at least 2 pieces;	
- 220 V sockets for medical devices in the medical compartment	- 220 V sockets for medical devices in the medical compartment	
- at least 2 pieces, which will be powered by a 12V-220V inverter with a minimum capacity of 1800W.	- at least 2 pieces, which will be powered by a 12V-220V inverter with a minimum capacity of 1800W.	
• Electrical installations will meet the following requirements:	• Electrical installations will meet the following requirements:	
- All circuits in the medical compartment will have automatic safety devices and/or separate switches designed/provided in the construction;	- All circuits in the medical compartment will have automatic safety devices and/or separate switches designed/provided in the construction;	
- The switches must be properly marked, and the function of each circuit will be easy to identify;	- The switches must be properly marked, and the function of each circuit will be easy to identify;	
- At least two circuits shall be installed so that a failure of the circuits does not turn off all lights or all connected medical devices;	At least two circuits will be installed so that a failure of the circuits does not turn off all lights or all connected medical devices;	
- The cables must withstand more than the maximum load of the fuses or switches by at least 30%;	- will withstand more than the maximum load of the fuses or the switches with at least 30%.	
- Cables and pipes must withstand vibrations. Cables must be installed in conduits;	- will withstand vibrations. The cables will be installed in the conduits	
- Cables will not pass through areas where gaseous substances are used;	- will not cross areas where are used the gaseous substances.	
- Outputs will not be interchangeable in places with different voltage systems.	- will not be interchangeable there where are different voltage systems.	

4. THE BODY OF THE VEHICLE		
4.1. Fire safety	4.1. Fire safety	
All materials used inside the vehicle shall be fire resistant.	All materials used inside the vehicle will be fire resistant.	
4.2 Driver's cab	4.2 Driver's cab	
The cab shall be equipped with the following:	The cab shall be equipped with the following:	
• Windshield defroster/defogger system that operates while the ambulance is in motion or stationary, both electrically powered and built-in glass type are accepted disintegrated type based on the hot air flow provided by the vehicle's heating system.	- Windshield defrosting/demisting system operating while the ambulance is in motion or parked both the type integrated in the glass that works on the basis of electricity, and the disintegrated type based on the flow of hot air provided by the vehicle's heating system	
• External windshield washing system.	- An external windscreen washing system.	
• Ventilation and air conditioning system.	- Ventilation and air conditioning system.	
• Two sun visors.	- Two sunshades.	
• Driver and passenger airbags.	- Driver and passenger airbags.	
• Electrically adjustable rear-view mirrors with heating.	- Electrically adjustable rear-view mirrors with heating.	
• Radio, Bluetooth.	- • Radio, Bluetooth.	
4.3 Loading capacity:		
• Number of seats (except for the driver):	The number of seats (except driver):	
- 1 or 2 in front with safety belts;	2 in front with seatbelts;	
- 2 in the medical compartment with safety belts;	2 in the medical compartment with safety belts;	**T9**
• Main stretcher with wheels and seat belts.	• Main stretcher with wheels and seat belts.	**M1**
4.4 Partition wall:		
• A partition wall will separate the driver compartment from the patient compartment. A sliding window shall be provided in the partition wall. The window will allow direct visual contact with the driver. It will be secured against accidental opening and will have an opaque curtain or other devices, which would prevent the light from the medical compartment from disturbing the driver's activity.	Will separate the driver's compartment from that of the patient. A sliding window will be foreseen in the partition wall. The window will allow the direct visual contact with the driver. Will be secured against accidental opening and will have an opaque curtain or other devices, so that the light from the medical compartment to not disturb the driver.	
• Portions of the walls outside the windows will be made of washable material resistant to disinfection.	Will be made of washable material resistant to disinfection.	
4.5 Emergency exits:		
In addition to the rear door, there will be an alternative exit from the medical compartment, which would allow the patient(s) to evacuate.	Will be an alternative exit from the medical compartment, which would allow the evacuation of the patient (patients) and the team.	
4.6 Openings (doors, windows):		

At least two exits:	Will exist minimum two exits:	
• one at the back;	- One in the back	
• one lateral exit (door) from the medical compartment.	- One lateral exit (door) at the medical compartment.	
Open position:		
• The rear doors must allow opening to a minimum of 250 and a maximum of 270°.	Will allow an opening of minimum 250 º - maximum 270 º.	
• All openings will be equipped with gaskets against water infiltration.	Will be equipped with gaskets against water infiltration.	
• The loading angle of the stretcher will be a maximum of 16°.	Will be of maximum 16º.	
• The ambulance doors will be equipped with a centralized closing system.	Will be equipped with central locking.	
• There must be at least two exterior windows in the medical compartment, one on the right side and one on the rear side. The window on the side will be a sliding one.	Will be at least two exterior windows in the medical compartment, one on the right side and one on the rear side. The window on the side will be a sliding one.	
• Windows should be located to ensure patient privacy and 1/3 of the top of the window will allow a view to the outside.	Will be placed so as to ensure patient's privacy, and 1/3 of the top of the windows will allow to see outside.	
• If the doors in the medical compartment are not completely closed or are open, an audio and visual signal will warn the driver.	• If the doors in the medical compartment are not completely closed or are open, an audio and visual signal will warn the driver.	
5. THE MEDICAL COMPARTMENT		
5.1 General requirements:		
• The medical compartment must be designed and constructed in such a way as to provide the necessary space for the medical devices mentioned below.	Will be designed and built so as to ensure necessary space for the medical devices mentioned bellow.	
• The ceiling, interior walls and doors of the medical compartment must be completely manufactured or covered with washable materials resistant to disinfection.	Will be made completely from or covered with washable materials resistant to the disinfection.	
• The material used inside the ambulance (medical compartment) must meet the requirements stipulated in the EN 1789 standard.	Will meet the requirements stipulated in the EN 1789 standard.	
The edges of the surfaces must be designed against the penetration of fluids. If the floor does not allow fluids to drain, one or more drains with plug(s) must be available.	The edges of the surfaces will be designed against the penetration of fluids. If the floor does not allow fluids to drain, one or more drains with plug(s) will be available.	
• Open shelves should be designed with rounded edges.	Will be designed with rounded edges.	
Drawers must be secured against accidental opening.	Drawers will be secured against accidental opening	
• There must be two handles positioned near the doors of the medical compartment - a handle installed on the partition wall near the side door;	Will exist 2 handholds positioned near the doors of the medical compartment:	
- the second handle installed on the lateral wall near the rear doors.	- the second handhold installed on the lateral wall near the rear doors	

• Access to the medical compartment through the rear doors must be facilitated by an installed metal step.	• Access to the medical compartment through the rear doors must be facilitated by an installed metal step.	
• Maintenance equipment (eg spare wheel or tool box) will not be accessible from inside the medical compartment.	• Maintenance equipment (eg spare wheel or tool box) will not be accessible from inside the medical compartment.	
• The left side wall (driver side) will be used for attaching medical equipment or portable medical equipment holders and chargers such as AED defibrillator and its attachments, portable aspirator, 2 oxygen supply systems – flow meter with humidifier.	• The left side wall (driver side) will be used for attaching medical equipment or portable medical equipment holders and chargers such as AED defibrillator and its attachments, portable aspirator, 2 oxygen supply systems – flow meter with humidifier.	
• All devices installed on the left side wall must be manually accessible and visible to the person sitting on the seat at the end of the stretcher.	• All devices installed on the left side wall must be manually accessible and visible to the person sitting on the seat at the end of the stretcher.	
• On the right side wall, in the upper half of the stretcher, a folding seat with seat belt and at least 1 non-folding seat will be attached.	• On the right side wall, in the upper half of the stretcher, a folding seat with seat belt and at least 1 non-folding seat will be attached.	**T10**
• The ceiling of the medical compartment will be used to attach 2 infusion stands.	• The ceiling of the medical compartment will be used to attach 2 infusion stands.	**T11**
• The partition will be used to attach a folding seat with a seat belt, with its back facing the direction of travel. A container for used materials will be placed on this wall, which should be easy to empty. Also in this area there will be a special place to store the standard equipped first aid kit/bag. It will be easily accessible from the outside by opening the side door. A sharps container, disinfectant dispenser and paper towel rack will also be located in this area.	• The partition will be used to attach a folding seat with a seat belt, with its back facing the direction of travel. A container for used materials will be placed on this wall, which should be easy to empty. Also in this area there will be a special place to store the standard equipped first aid kit/bag. It will be easily accessible from the outside by opening the side door. A sharps container, disinfectant dispenser and paper towel rack will also be located in this area.	**T10** **T12** **T13**
• 2 attached oxygen cylinders of 10L capacity each will be placed in a well-defined place in the medical compartment in an area that would allow their easy change. The compartment for the oxygen cylinders must have a transparent and foldable window, to be able to handle the O2 cylinders.	• 2 attached oxygen cylinders of 10L capacity each will be placed in a well-defined place in the medical compartment in an area that would allow their easy change. The compartment for the oxygen cylinders must have a transparent and foldable window, to be able to handle the O2 cylinders.	
• 1 mobile oxygen cylinder, 5 l capacity, with flowmeter will have a special place for fixing in the car toilet and provided with its own transport bag.	• 1 mobile oxygen cylinder, 5 l capacity, with flowmeter will have a special place for fixing in the car toilet and provided with its own transport bag.	**M13**
• The wheelchair with patient restraint system will be installed in the back, which is easily accessible.	• The wheelchair with patient restraint system will be installed in the back, which is easily accessible.	**M6**
• The floor will be chosen in such a way as to ensure adequate grip for the accompanying person, including when it is wet; it must be durable and easy to	• The floor will be chosen in such a way as to ensure adequate grip for the accompanying person, including when it is wet; it must be durable	**T15**

clean.	and easy to clean.	
• The interior of the fully equipped medical compartment will be designed to minimize the risk of injury.	• The interior of the fully equipped medical compartment will be designed to minimize the risk of injury.	
5.2 Dimensions of the medical compartment		
• Minimum length: 2 400 mm, at the level of the stretcher excluding the length of any cupboards, drawers and other furniture located next to the partition wall.	**Length: 3400 mm**, at the stretcher level from which it is excluded the length of any cupboards, drawers and other furniture placed near the partition wall.	
• Minimum height: 1 600 mm.	**Height: 1900 mm**, in the stretcher working zone.	
• Minimum width: 1 300 mm;	Width: 1600 mm	
5.3 Ventilation system:		
A ventilation system shall be available for the medical compartment.	Will be available a ventilation system for the medical compartment.	**T16**
5.4 Heating and cooling systems:		
• In addition to heating the driver's cabin, a system for heating the air in the medical compartment will be available.	Will be available an independent, adjustable, system, to heat the air in the medical compartment.	**T17**
• Apart from the heating system, a cooling system with air conditioning will be available, which will serve the medical compartment separately.	A cooling system with air conditioning will be available, which will serve the medical compartment separately	**T19**
5.5 Interior lighting		
	LED lighting of the medical compartment (light of balanced, natural colour)	**T20**
	- Patient's zone: minim 300 lx (adjustable);	
	- Surrounding zones: minimum 50 lx.	
• Depending on the travel speed, the interior noise level will be in accordance with the European regulations in force (according to EN 1789).	The interior noise level will be in accordance with the European regulations in force (according to EN 1789).	
5.6 Systems for maintaining/attaching the equipment in the medical compartment (EN 1789 and the subsequent amendments)		
• Without exception, all materials such as medical devices, equipment and objects normally contained in an ambulance must be secured so that they do not can be designed when subjected to a force of minimum 10g (gravity) horizontally and vertically.	Will be attached so as not to be projected when being subjected to a force of minimum 10g (gravitation) horizontally and vertically.	
• The distance covered by the materials when subjected to a force must not endanger the safety of the people in the ambulance	Will not have to endanger the safety of people in the ambulance.	
. • If they are subjected to these forces, then:	If they are subjected to these forces, then:	
- no object will have sharp edges that would endanger the safety of the people in	- no item will have sharp edges which would endanger the people	

the ambulance;	safety in the ambulance;	
- the maximum distance of movement of the support or any other attached component and the fixing system will not exceed 150 mm.	- will not exceed 150 mm.	
6. MEDICAL DEVICES AND EQUIPMENT		
6.1 Endowment with medical devices		
The ambulance will be designed and built so as to ensure:	Will be designed and built so as to ensure:	
• Assisted transportation in conditions of maximum safety for the patient and staff;	- The assisted transportation in conditions of maximum safety for the patient and the personnel;	
• Placement and attachment of medical devices.	- The location and attachment of the medical devices.	
6.2 Medical equipment storage		
• All equipment required to perform standard procedures must be stored in a place specially designed for this purpose.	Will be stored in a place specially designed for this purpose.	
• Basic equipment, required for an intervention outside the vehicle, must be easily accessible through the ambulance doors.	Will be easily accessible through the ambulance's doors.	
• All equipment will be stored securely using a securing system to prevent knocking/injury while the vehicle is in motion.	Will be safely stored by using a fastening system to prevent knocking / injury when the vehicle is moving.	
• All equipment required to perform standard procedures must be stored in a place specially designed for this purpose.	All equipment required to perform standard procedures will be stored in a place specially designed for this purpose	
6.3 Requirements for medical devices		
General requirements:	General requirements:	
• The equipment will be designed to be used both when the ambulance is in motion and when used in the field.	Will be designed for both, to be used in conditions when the ambulance is in motion as well as to be used to the scene.	
• If the equipment is designed as "portable" (except for patient transport equipment), it must be able to:	If the equipment is designed as "portable" (except the equipment for the patient transportation) it must to:	
- Be carried by one person;	- will be carried by one person	
- Have its own power source, be self-contained and charged in the vehicle while the vehicle is moving or stationary.	- possess own energy source, to be self-sufficient, and charged up in the vehicle while it is in motion or is parked	
- To be used outside the vehicle, independently.	- will be used outside of vehicle, independently.	
• Temperature:	Temperature:	
- In the absence of other inscriptions on the device, it must be able to function in a temperature range of ≤ -5 °C - ≥ + 40 ° C.	- will be able to operate within a temperature range of ≤ -5ºC - ≥+40ºC.	
- In the absence of other inscriptions on the device, it must be able to operate for at least 20 minutes, when it is at a temperature of -5°C.	- will be able to operate minimum 20 minutes when it is at a temperature of -5ºC.	

• Attaching the equipment:	Attaching of the equipment:	
- It will be attached inside the vehicle.	- will be attached inside the vehicle.	
- The fastening system must withstand accelerations of 10 G.	- will resist to the accelerations of 10G.	
- Electrical terminals and sockets will not be part of the equipment fastening system.	- will not be part of the fastening system of the equipment.	
• Electrical safety:	Electrical security:	
- All equipment must be selected and installed so as not to damage equipment that uses electricity.	- will be selected and installed so as not to damage the equipment supplying electricity.	
• Maintenance:	• Maintenance:	
- The manufacturer will provide user and maintenance guides in Romanian and Russian or English.	- will provide the user and maintenance guides in Romanian and Russian or English.	
7. LIST OF EQUIPMENT		
Equipment production year no older than 2022	Equipment production year no older than 2022	
7.1 Patient handling and immobilization equipment		
• Stretcher support with stretcher fixing system and stretcher sliding system.	The support for the stretcher with fastening system with the possibility to place the stretcher laterally or in the middle with the sliding system.	**T14**
• Main stretcher with wheels and patient fixation system:	**EMS ES-126 MODEL MAIN STRETCHER**	**M1**
Meets the following criteria:	Meets the following criteria:	
- Length 1950 mm ± 20 mm.	- Length 1950mm ±20 mm.	
- Width 550 ± 20 mm.	- Width 550±20 mm.	
- Minimum wheel diameter 200 mm.	- Wheel diameter 200 mm.	
- To comply with the requirements of the standard EN 1865-1: 2010 + A1: 2015, material – metal.	- Will follow the requirements of the standard EN 1865-1:2010+A1:2015 material - metal.	
- EN 1789 testing - test certificate must be available.	- EN 1789 testing – the testing certificate will be available.	
- Automatic release of the trolley legs when unloading from the ambulance.	Automatic release of the legs of the trolley when unloading from the ambulance.	
- Folding lateral handles.	- Folding lateral handles.	
- Telescopic handles for carrying the stretcher.	- Telescopic handles for the transportation of the stretcher.	
- Wheel brakes.	- wheel brakes	
- The platform and trolley will support a weight of up to 220 kg separately or combined, including when the equipment is on wheels.	Platform and the trolley will support a weight up to 220 kg separately or combined, including when the equipment is on the wheels.	
- The reusable mattress, made of resistant material, which allows easy washing and disinfection:	- Reusable mattress, made from resistant material, which allows a easy washing and disinfection:	

o Dimensions compatible with the main stretcher.	- Dimensions compatible with the main stretcher.	
o Other parameters according to the EN 1865 standard.	- o Other parameters according to the EN 1865 standard.	
• **Wheelchair**, with patient fastening system	• **Wheelchair, with patient fastening system: SPENCER 407**	**M6**
- Four wheels with braking system. Attached to the ambulance wall or rear door. The backrest and leg support surfaces are easily removable.	Four wheels with braking system. Attached to the ambulance wall or rear door. The backrest and leg support surfaces are easily removable.	
• Mattress with handles for transferring patients made of washable material with a width of 80±5 cm, 1 piece.	**EMS PATIENT TRANSFER MATTRESS EMS ET-140**	**M2**
7.2 Equipment/devices for breathing		
• Fixed oxygen installation:		
- Oxygen cylinders of 10 liters each with a quick interconnection system with pressure reducers equipped with pressure gauges for each cylinder, 2 pieces;	- **2 cylinders of 10 liters each**, with fast interconnection system:	**M12**
- Flowmeters with humidifiers, with a maximum capacity of 15 L/min, with regulating valve, with tube and face mask according to EN 1789, 2 pieces;	- Flow meter with a maximum capacity of at least 15 L/min., with regulating valve, with tube and face mask	**M11**
• **Portable oxygen:**	**Portable oxygen:**	
- 1 cylinder of 5 liters with a bag for transport, with a place for placement and fixation in the ambulance, with a pressure reducer with a flow meter, with a maximum capacity of at least 15 l/min, with a regulating valve, tube and face mask.	- 1 cylinder of 5 liters with a bag for transport, with a place for placement and fixation in the ambulance, with a pressure reducer with a flow meter, with a maximum capacity of at least 15 l/min, with a regulating valve, tube and face mask.	**M13**
• AMBU type ventilation balloon with oxygen tank:	• AMBU type ventilation balloon with oxygen tank: **COMPOWER**	**M22**
- Adult balloon with face mask, 1 piece;	- Adult balloon with face mask, 1 piece;	
- Child balloon with face mask, 1 piece.	- Child balloon with face mask, 1 piece.	
• Mouth-to-mouth breathing apparatus with an anti-bacterial filter mask, with one-way valve, in a carrying case, 1 piece.	• Mouth-to-mouth breathing apparatus with an anti-bacterial filter mask, with one-way valve, in a carrying case, 1 piece.	
• Portable Aspirators - 1 pieces:	**OB2012 SUCTION UNIT**	**M14**
- Resistant to falling, shocks, water and disinfectants;	- Resistant to falling, shocks, water and disinfectants;	
- With a built-in vacuum regulator;	- With a built-in vacuum regulator;	
- Robust, portable, compact;	- Robust, portable, compact;	
- Electric operation from a built-in battery;	- Electric operation from a built-in battery;	
- Continuous operating mode, based on the built-in battery or connected to the power source;	- Continuous operating mode, based on the built-in battery or connected to the power source;	
- Battery operation time is at least 60 minutes; - 220V and 12V power supply with adapter fixed on the car sanitary wall;	- Battery operation time is at least 60 minutes;- 220V and 12V power supply with adapter fixed on the car sanitary wall;	
- Maximum intake air flow 30 L/min; the pressure will be at least 600 mmHg;	Maximum free air suction flow 30 L/min, the pressure will be minimum	

	600 mmHg	
- The minimum capacity of the reusable reservoir – 1 L;	the minimum capacity of the reusable reservoir - 1 L;	
- Alarm and monitoring system for battery status and connection to the power source;	- Alarm and monitoring system for the battery status and connection to the power supply;	
- With at least 2 reusable silicone tubes with a length of 1.5-2m and with antibacterial filter 1 piece and Yankauer probes 1 piece.	- With at least 2 reusable silicone tubes with a length of 1.5-2m and with antibacterial filter 1 piece and Yankauer probes 1 piece	
7.3 Equipment for monitoring/defibrillation/diagnosis		
• 7.3 Defibrillation/diagnostic equipment	**MINDRAY BENEHEART D6**	**M15**
- Automatic defibrillator, robust construction with easy-to-clean surfaces, easy to handle, use and transport.	automatic defibrillator, robust construction, easy to clean the surfaces, easy to manipulate, to use and transport;	
- Equipped with minimum alarm system for: electrode detachment, asystole, tachycardia, bradycardia, fibrillation.	Equipped with minimum alarm system for: electrode detachment, asystole, tachycardia, bradycardia, fibrillation.	
- With system of fixing and feeding on the wall of the self-sanitary toilet.	- With system of fixing and feeding on the wall of the self-sanitary cabin.	
- Waterproof bag.	- Impermeable bag with interior compartments and adjustable strap.	
- Vibration according to EN 1789.	- Vibration according to EN 1789.	
- Impact resistant EN 1789.	- Resistant to the impact, according to EN 1789.	
Supplied configuration:		
Defibrillator with rechargeable Li Ion battery. Adult and child disposable paddle kit	- Smart lithium-ion battery, rechargeable and free of maintenance.	
	- External paddles set coming with pediatric paddles included – 1 set.	
- 1 set. 220V and 12V mains power cable with connector fixed to the car washroom wall.	- AC power 100 to 240 VAC (±10%), DC Power (with an external DC/AC adapter) 12V.	
Technical description:		
- To have a built-in Li-Ion rechargeable battery.	- will have in-built Li-Ion rechargeable battery.	
- The battery must provide sufficient power to deliver a minimum of 150 shocks of 200 J or not less than 4 hours of continuous ECG monitoring.	With one new fully charged battery, - Monitoring: 6 hours - Defibrillation: 200 discharges with 360J, 300 discharges with 200J - Pacing: 4,5 hours	
- Battery life of at least 4 years.	- Min 4 years, depends on operation and storage conditions.	
- The recharge time is a maximum of 4 hours.	- Less than 3 hours to 90% and less than 4 hours to 100% with equipment power off.	
- Have visual and audible battery discharge alarm systems.	- will have the sound and visual alarming systems regarding the battery	

	discharge	
- The system must have automatic ECG evaluation.	- will have the possibility of automatic evaluation of ECG.	
- Heart rate between 30 and 300 bpm.	- heart frequency range between 15 to 300 bpm.	
Technical parameters of the defibrillation regime:		
- BTE defibrillation (truncated biphasic exponential wave).	- Biphasic truncated exponential (BTE) waveform, auto-compensation according to patient impedance	
- Shock power selected as standard from 2 to 200 J.	- Shock power – automatically selected in the standard way from 2 to 200J;	
- Recharge time for shock re-administration maximum 8 sec.	- Recharging time for repeated shock administration maximum 8 seconds	
- Automatic power limitation system up to 50J if the system recognizes pediatric paddles.	- Automatic system for shock power limitation until 50J when the system recognizes the paediatric paddles;	
- Automatic shock cancellation by shock discharge system during non-use period up to 30 seconds.	- Automatic cancellation and discharge system of the shocks until 30 seconds in non-usage period.	
- Language of communication – Romanian.	- Language of communication – Romanian/English.	
7.4 Sanitary materials (minimum requirements):		**M24**
• Bed linen, 2 pieces.	• Bed linen, 2 pieces.	
• Blankets, 4 pieces.	• Blankets, 4 pieces.	
• Sterile and non-sterile wound dressing, 1 set.	• Sterile and non-sterile wound dressing, 1 set.	
• Reusable kidney plate, 2 pieces.	• Reusable kidney plate, 2 pieces.	
• Men's urinary bladder, 1 piece.	• Men's urinary bladder, 1 piece.	
• Urinary pad for women, 1 piece.	• Urinary pad for women, 1 piece.	
• Vomit bags, 2 pcs.	• Vomit bags, 2 pcs.	
• Non-sterile examination gloves, 100 pieces.	• Non-sterile examination gloves, 100 pieces.	
• Container for sharp objects, 1 piece.	• Container for sharp objects, 1 piece.	
• Container for waste, 1 piece.	• Container for waste, 1 piece.	
• First aid kit/bag, 1 set.	• First aid kit/bag, 1 set.	
• Non-textile mattress for the main stretcher, 1 piece.	• Non-textile mattress for the main stretcher, 1 piece.	
7.5 Auxiliary materials and devices:		
• Seat belt cutter, 2 pieces.	• Seat belt cutter, 2 pieces.	**T21**
• Hammer to break the window, 2 pieces (one in the driver's cabin, one in the	• Hammer to break the window, 2 pieces (one in the driver's cabin,	**T21**

medical compartment).	one in the medical compartment).	
• Reflective triangles, 2 pieces.	• Reflective triangles, 2 pieces.	
• Fire extinguisher, 2 pieces minimum 2 l each.	• Fire extinguisher, 2 pieces minimum 2 l each.	**T25**
• Set of rubber mats in the driver's cabin.	• Set of rubber mats in the driver's cabin.	
• Tow strap.	• Tow strap.	
• Vehicle operation manual in Romanian and Russian or English.	• Vehicle operation manual in Romanian and Russian or English.	
• User guide in Romanian and Russian or English.	• User guide in Romanian and Russian or English.	
8. GUARANTEE		
8.1 All equipment, medical devices must have at least a 36-month warranty from the moment of signing the handover receipt.	All ambulance conversion equipment is guaranteed for 36 months from the date of the signature of the minutes of reception by the final beneficiary. Only factory faults and defects will be covered under warranty.	
8.2 The vehicle must have a minimum warranty of 200,000 km or 24 months, whichever comes first.	**RESPONSIBILITY OF MERCURIY TRADE SRL**	
9.SERVICE AND MAINTENANCE		
9.1 SERVICE AND MAINTENANCE of Motor Vehicles		
All tenderers will examine the existence of the necessary technical facilities for ambulance services, in accordance with the general warranty conditions and the manufacturer's user guide.	**RESPONSIBILITY OF MERCURIY TRADE SRL**	
Reaction period from the moment of the request - maximum 24 hours, the economic agent, winner, will ensure the technical service and maintenance of the ambulances, the provision of remedial measures (repairs) for up to 14 calendar days, regardless of the type of repair (repairs).		
During the warranty period, at the reasonable request of the user, the repair, adjustment and maintenance of the vehicles, according to the specifications of the manufacturer's guidelines, will be done free of charge.		
Technical service and current repairs will be carried out without a queue.		
Parts and labor are free, except for vehicle supplies specified by the manufacturer.		
9.2 SERVICE AND MAINTENANCE OF EQUIPMENT AND MEDICAL DEVICES		
All bidders will examine the existence of the necessary technical facilities for services for medical equipment, in accordance with the general warranty		

conditions and the manufacturer's user guide.	**RESPONSIBILITY OF MERCURIY TRADE SRL**	
During the warranty period:		
Reaction period from the moment of the request - maximum 24 hours, Maximum duration of remedial measures maximum - 72 hours, if the remedial measures are not executed within a maximum of 72 hours, the medical equipment and devices will be replaced, free of charge.		
Temporary replacement of equipment must be provided in accordance with the periods mentioned above.		
During the warranty period, at the reasonable request of the user, the repair, adjustment and maintenance of the medical equipment according to the specifications of the manufacturer's guidelines will be done free of charge.		
10. AVAILABILITY OF SPARE PARTS		
Each bidder undertakes, on his own responsibility, the availability of spare parts, accessories and consumables for all positions offered on the market of the Republic of Moldova free of charge or for a fee, as follows: free spare parts, including performance for the warranty period.	SPARE PARTS WILL BE FREE OF CHARGE ONLY IF THE CAUSE OF MALFUNCTIONS OR DEFECTS ARE MANUFACTURERS' PRODUCTION FAULTS IN THE GUARANTEE PERIOD	
11. MANUALS		
It is necessary to have a technical guide and a user guide in Romanian	In Romanian or English or Russian	