

# **ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER**

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**Contract title:** Supply of Firefighting Vehicle for Extinguishing with Water and Foam 4000-Liter Capacity

**Publication reference:** ROMD00073 – “Enhancing the intervention skills of professional firefighters” (EnIS)

**Columns 1-2 should be completed by the contracting authority**  
**Columns 3-4 should be completed by the tenderer**  
**Column 5 is reserved for the evaluation committee**

## **Annex III – AUTOFORTA SRL technical offer**

*The tenderers are requested to complete the template on the next pages:*

- *Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),*
- *Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)*
- *Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation*

The **AUTOFORTA SRL** documentation supplied clearly indicates the models offered and the options included so that the evaluators can see the exact configuration. **AUTOFORTA SRL** understands that offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee. The **AUTOFORTA SRL** offer is clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

## TECHNICAL REQUIREMENTS

1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1	<p><b>PURPOSE OF USE</b></p> <p>The vehicle is intended to be used by public entities belonging to governmental organization (General Inspectorate for Emergency Situations of the Ministry of Internal Affairs of the Republic of Moldova). The vehicle is designed for but not limited to response missions such as fire extinguishing, rescue operations, providing first aid, and saving individuals from heights and/or wells in urban areas. The vehicle shall be suitable for intensive use, capable of immediate deployment for response missions, with frequent accelerations and decelerations, including on steep ramps and slopes. The vehicle as well as the equipment and accessories installed and/or provided with the vehicle must comply with standards listed in pt. 3.10.</p>	<p><b>PURPOSE OF USE</b></p> <p>YES, the vehicle is intended to be used by public entities belonging to governmental organization (General Inspectorate for Emergency Situations of the Ministry of Internal Affairs of the Republic of Moldova). The vehicle is designed for but not limited to response missions such as fire extinguishing, rescue operations, providing first aid, and saving individuals from heights and/or wells in urban areas. The vehicle is suitable for intensive use, capable of immediate deployment for response missions, with frequent accelerations and decelerations, including on steep ramps and slopes. The vehicle as well as the equipment and accessories installed and/or provided with the vehicle comply with standards listed in pt. 3.10.</p>		
2.	<p><b>ORGANIZATION AND COMPONENTS OF THE VEHICLE</b></p> <p>2.1. Firefighting Vehicle for Extinguishing with Water and Foam 4000-Liter Capacity.</p> <p>2.2. Chassis.</p> <p>2.3. Special Equipment Compartment:</p> <p>2.3.1. Firefighting System:</p> <p>2.3.1.1. Water system, consisting of:</p> <p>2.3.1.1.1. Water tank and foam concentrate tank;</p> <p>2.3.1.1.2. Pump unit with built-in automatic priming system;</p> <p>2.3.1.1.3. Foam proportioning system;</p> <p>2.3.1.1.4. Suction, connection, and discharge pipes.</p> <p>2.3.2. Control system for the pump unit;</p> <p>2.3.3. Compartment for specific accessories;</p>	<p><b>ORGANIZATION AND COMPONENTS OF THE VEHICLE</b></p> <p>2.1. Firefighting Vehicle for Extinguishing with Water and Foam 4000-Liter Capacity.</p> <p>2.2. Chassis.</p> <p>2.3. Special Equipment Compartment:</p> <p>2.3.1. Firefighting System:</p> <p>2.3.1.1. Water system, consisting of:</p> <p>2.3.1.1.1. Water tank and foam concentrate tank;</p> <p>2.3.1.1.2. Pump unit with built-in automatic priming system;</p> <p>2.3.1.1.3. Foam proportioning system;</p> <p>2.3.1.1.4. Suction, connection, and discharge pipes.</p> <p>2.3.2. Control system for the pump unit;</p> <p>2.3.3. Compartment for specific accessories;</p>		

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	2.3.4. The water tank, foam tank(s), pump unit, and other equipment equipping the superstructure shall be arranged to ensure a balanced weight distribution on the chassis.	2.3.4. The water tank, foam tank(s), pump unit, and other equipment equipping the superstructure are arranged to ensure a balanced weight distribution on the chassis.		
3.	<b>TECHNICAL CHARACTERISTICS</b>	<b>TECHNICAL CHARACTERISTICS</b>		
3.1.	<b>Vehicle:</b>	<b>Vehicle: Firefighting Vehicle for Extinguishing with Water and Foam 4000-Liter Capacity on MAN TGM 18.320 4x4 BB CH</b>	Firefighting Vehicle Sheet	
3.1.1.	Vehicle category: <b>N3SG</b> according to Moldova Vehicle and Trailer Registration Rules;	YES, vehicle category: <b>N3SG</b> according to Moldova Vehicle and Trailer Registration Rules;	Firefighting Vehicle Sheet	
3.1.2.	The brand-new and unused vehicle chassis shall be manufacture of minimum 2026;	YES, the brand-new and unused vehicle chassis is manufacture of minimum 2026;	Declaration of origin of goods	
3.1.3.	The chassis manufacturer must have an official national representative in the Republic of Moldova, capable of ensuring maintenance and warranty for both offered the vehicle and the entire assembly (chassis + superstructure). Period of warranty minimum 5 years, and post-warranty minimum 10 years;	YES, the chassis manufacturer has the official national representative in the Republic of Moldova, capable of ensuring maintenance and warranty for both offered the vehicle and the entire assembly (chassis + superstructure). Period of warranty 5 years, and post-warranty 10 years;	Warranty conditions Commercial Guarantee Declaration of origin of goods	
3.1.4.	Overall dimensions (L x W x H): - maximum length: 9000 mm; - maximum width: 2550 mm; - maximum height measured from the ground: maximum 3400 mm.  The height shall be established when the vehicle is fully equipped and ready for deployment, with all equipment and full tanks, as well as the full crew onboard;	Overall dimensions (L x W x H): - length: 8.500 ± 100 mm; - width: 2550 mm; - height measured from the ground: 3400 mm.  YES, the height is established when the vehicle is fully equipped and ready for deployment, with all equipment and full tanks, as well as the full crew onboard;	Firefighting Vehicle Sheet	
3.1.5.	Specific Engine Power: minimum 300 HP (generated exclusively by internal combustion engine);	YES, specific Engine Power: <b>320 HP</b> (generated exclusively by internal combustion engine);	MAN Vehicle description	
3.1.6.	Estimated engine life-cycle: minimum 1 000 000 km;	YES, estimated engine life-cycle: 1 000 000 km;		
3.1.7.	Maximum Speed: minimum 100 km/h;	YES, maximum Speed: 100 km/h;	MAN Vehicle description	

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3.1.8.	Maximum Gradient: minimum 30%;	YES, maximum Gradient: 60%;	MAN Vehicle description	
3.1.9.	When fully equipped, with all supplies and the crew onboard (fully operational), the vehicle shall maintain stability for safe movement on terrain with inclinations of at least 25 degrees.	YES, when fully equipped, with all supplies and the crew onboard (fully operational), the vehicle shall maintain stability for safe movement on terrain with inclinations of 25 degrees.		
3.1.10.	The approach angles, departure angles, and ground clearance of the fully operational vehicle shall allow movement on unpaved roads and rough terrain:  - Ground Clearance: minimum 300 mm; - Angle of Attack: minimum 25°; - Departure Angle: minimum 25°.	YES, the approach angles, departure angles, and ground clearance of the fully operational vehicle allow movement on unpaved roads and rough terrain:  - Ground Clearance: 326 mm; - Angle of Attack: 26°; - Departure Angle: 25°.	Firefighting Vehicle Sheet	
3.2.	<b>Chassis</b>	<b>Chassis: MAN TGM 18.320 4x4 BB CH</b>		
3.2.1.	<b>Engine and Auxiliary Systems:</b>	<b>Engine and Auxiliary Systems:</b>		
3.2.1.1.	Emission standard: according to the EU regulations in force on the date of delivery.	YES, emission standard: <b>Euro 6e</b> , according to the EU regulations in force on the date of delivery.	MAN Vehicle description	
3.2.1.2.	Fuel type: diesel;	YES, fuel type: <b>diesel</b> ;	MAN Vehicle description	
3.2.1.3.	Fuel tank with a minimum capacity of 100 liters, AdBlue tank with a minimum capacity of 20 liters, positioned so as not to affect the ability to pass through rough terrain and protected on the side and below by a metal shield, against damage when driving off paved or unpaved roads.	YES, <u>fuel tank</u> made of steel with a capacity of <b>150 liters</b> , <u>AdBlue tank</u> made of plastic with a capacity of <b>27 liters</b> , positioned on the right side of the vehicle, so as not to affect the ability to pass through rough terrain and protected on the side and below by a metal shield, against damage when driving off paved or unpaved roads.	MAN Vehicle description	
3.2.1.4.	Electric engine preheating system for use during stationary periods, powered by an external source.	YES, electric engine preheating system for use during stationary periods, powered by an external source (220 V).		
3.2.1.5.	Oil pan (sump) designed for slopes exceeding 30% protected below by a metal shield, against damage when driving off paved or unpaved roads.	YES, oil pan (sump) designed for slopes of maximum 60% protected below by a metal shield, against damage when driving off paved or unpaved roads.		
3.2.1.6.	Towing couplings for the maximum load of the fire truck, located at the front and rear of the chassis.	YES, towing couplings for the maximum load of the fire truck, located at the front and rear of the chassis:  - Front: towing bolt, centrally positioned, integrated in the front bumper and 2 hooks (left / right)	MAN Vehicle description	

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		- Rear: towing coupling <b>model Rockinger type 400G 150A</b>		
3.2.1.7.	Equipped with a traction control system (ASR or equivalent).	YES, equipped with a traction control system (ASR).	MAN Vehicle description	
3.2.2.	The chassis must have an electric winch mounted in the front of the vehicle:	The chassis has an electric winch mounted in the front of the vehicle: <b>DRAGON WINCH DWT 22000 HD + accessories</b>	Technical Sheet	
3.2.2.1.	The winch shall be powered by 24 V DC of the vehicle, equipped with a remote control;	The winch is powered by 24 V DC of the vehicle, equipped with a remote control;		
3.2.2.2.	Pulling capacity minimum 8 tons;	Pulling capacity: 9979 kg;		
3.2.2.3.	Electric motor power minimum 5 kW;	Electric motor power: 7,0 kW;		
3.2.2.4.	Braking system: automatic electromechanical brake (anti-rollback);	Braking system: dynamic (anti-rollback);		
3.2.2.5.	Cable: galvanized steel, minimum 12 mm, minimum 25 m length;	Cable: galvanized steel, 12 mm, 25 m length;		
3.2.2.6.	Ingress protection: IP 68 minimum;	Ingress protection: IP 68;		
3.2.2.7.	Equipped with a cover to protect it from dust, water and mud.	YES, equipped with a cover to protect it from dust, water and mud.		
3.2.3.	<b>Transmission:</b>	<b>Transmission:</b>		
3.2.3.1.	<b>4x4 drivetrain</b> with front, rear and interaxle differential locking device;	<b>YES, 4x4 drivetrain</b> with front, rear and interaxle differential locking device;		
3.2.3.2.	<b>Automatic or automated manual transmission</b> , dedicated for vehicles purpose, with sufficient gear ratios to ensure movement under all driving conditions.	YES, <b>MAN PowerMatic 08.130D automatic transmission</b> , dedicated for vehicles purpose, with <b>8+1</b> gear ratios to ensure movement under all driving conditions.	MAN Chassis Technical Sheet	
3.2.3.3.	Front axle suspension with a stabilizer bar or pneumatic system, designed for operation on both asphalt roads and unpaved or rough terrain;	YES, front axle suspension with a stabilizer bar system, designed for operation on both asphalt roads and unpaved or rough terrain;		
3.2.3.4.	Rear axle suspension with a stabilizer bar or pneumatic system, designed for operation on both asphalt roads and unpaved or rough terrain.	YES, rear axle suspension with a stabilizer bar system, designed for operation on both asphalt roads and unpaved or rough terrain.		
3.2.4.	<b>Wheels and Tires System:</b>	<b>Wheels and Tires System:</b>		
3.2.4.1.	Tires shall be manufacture of minimum the year of procurement.	YES, tires shall be manufacture of minimum the year of procurement.		

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3.2.4.2.	Mud and Snow (M+S) tires mounted on steel rims (including the spare tire). The tires shall have a tread suitable for both asphalt and unpaved roads;	YES, mud and Snow (M+S) tires mounted on steel rims (including the spare tire). The tires shall have a tread suitable for both asphalt and unpaved roads;		
3.2.4.3.	The rear axle may have twin wheels.	The rear axle has twin wheels.		
3.2.4.4.	The spare tire of the same type and size as those mounted on the vehicle. The vehicle shall be equipped with a mechanism to lower and raise the spare tire from its mounted position without affecting clearance, regardless of its location on the vehicle;	YES, the spare tire of the same type and size as those mounted on the vehicle. The vehicle shall be equipped with a mechanism to lower and raise the spare tire from its mounted position without affecting clearance, regardless of its location on the vehicle;		
3.2.5.	<b>Steering System:</b> Power-assisted steering;	<b>Steering System:</b> YES, power-assisted steering;		
3.2.6.	<b>Braking System</b>	<b>Braking System</b>		
3.2.6.1.	Power-assisted;	YES, power-assisted;		
3.2.6.2.	Electronic Braking System (EBS or equivalent);	YES, Electronic Braking System (EBS);	MAN Vehicle description	
3.2.6.3.	Acceleration Slip Regulation (ASR or equivalent);	YES, Acceleration Slip Regulation (ASR);	MAN Vehicle description	
3.2.6.4.	Electronic Stability Program (ESP or equivalent)	YES, Electronic Stability Program (ESP);	MAN Vehicle description	
3.2.6.5.	Auxiliary braking system (retarder or equivalent);	YES, auxiliary braking system - model <b>MAN EVBec</b> ;	MAN Vehicle description	
3.2.6.6.	Hill-start assist system;	YES, hill-start assist system – model <b>MAN EasyStart</b> ;		
3.2.6.7.	Hill descent control system;	YES, hill descent control system.		
3.2.6.8.	Coupling for the trailer's pneumatic braking system;	YES, coupling for the trailer's pneumatic + electric braking system, including system for trailers with ABS system;		
3.2.6.9.	The vehicle shall not be equipped with limiter for high speeds;	YES, the vehicle is not equipped with limiter for high speeds;		
3.2.6.10.	The braking system must have an external connection, electric or pneumatic, which allows maintaining permanent minimum pressure system when stationary.	YES, the braking system will have an external connection, pneumatic, which allows maintaining permanent minimum pressure system when stationary.		
3.2.7.	<b>Electrical System</b>	<b>Electrical System</b>		

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3.2.7.1.	Equipped with outlets for connection to external devices;	YES, equipped with outlets for connection to external devices;		
3.2.7.2.	System voltage: 24 V;	YES, system voltage: 24 V;		
3.2.7.3.	Two maintenance-free batteries;	YES, two maintenance-free batteries: 2 x 12 V, 180 Ah, long-life (EFB).		
3.2.7.4.	Main switch to disconnect all vehicle consumers.	YES, main switch to disconnect all vehicle consumers - mechanical.		
3.2.7.5.	All electrical system cables shall be concealed and protected from impact during travel and shall be halogen free.	YES, all electrical system cables shall be concealed and protected from impact during travel and shall be halogen free.		
3.2.7.6.	The vehicle shall be equipped with an external connector to enable stationary charging (when parked) of the batteries and other equipment requiring charging. The battery charging system shall include an electronic charger with an automatic adapter for long-term maintenance and storage;	YES, the vehicle is equipped with an external connector to enable stationary charging (when parked) of the batteries and other equipment requiring charging: <b>Model MARECHAL Rettbox</b> .  YES, the battery charging system includes an electronic charger with an automatic adapter for long-term maintenance and storage: model <b>LEAB</b> .	Technical Sheet  Technical Sheet	
3.2.7.7.	The external 230 V AC connector shall be a male-type connector mounted on the driver's side of the vehicle. Two female connectors, each with an attached cable of at least 10 meters, shall also be provided;	YES, the external 230 V AC connector is a male-type connector mounted on the driver's side of the vehicle. Two female connectors, each with an attached cable of 10 meters, is also be provided;		
3.2.7.8.	The 230 V AC circuit shall be equipped with grounding, ensuring a leakage current of maximum 30 mA, or protected by an isolating transformer. If the protection is grounding-only, a warning label next to the outlet shall read: „ATENȚIE! A SE CONECTA DOAR LA O PRIZĂ AUTORIZATĂ”;	YES, the 230 V AC circuit is equipped with grounding, ensuring a leakage current of maximum 30 mA. A warning label next to the outlet shall read: „ATENȚIE! A SE CONECTA DOAR LA O PRIZĂ AUTORIZATĂ”;		
3.2.7.9.	Engine startup shall not be possible while connected to an external 230 V AC power source unless the outlet has an automatic disconnect that deactivates upon engine start;	YES, engine startup is not possible while connected to an external 230 V AC power source unless the outlet has an automatic disconnect that deactivates upon engine start;		
3.2.7.10.	The electrical system shall support the operation of the electrical winch, specified at pt. 3.2.2.	YES, the electrical system shall support the operation of the electrical winch, specified at pt. 3.2.2.		
3.2.8.	<b>Lighting System</b>	<b>Lighting System</b>		
3.2.8.1.	Signal headlights (chassis-mounted) with front and rear fog lights;	Yes, signal headlights (chassis-mounted) with front and rear fog lights;	MAN Vehicle description	

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3.2.8.2.	All vehicle headlights and lamps shall be LED only, safeguarded by a stainless-steel protective grill to prevent accidental damage.	YES, all vehicle headlights and lamps shall be LED only, safeguarded by a stainless-steel protective grill to prevent accidental damage.	MAN Vehicle description	
3.2.9.	<b>Cabin</b>	<b>Cabin</b>		
3.2.9.1.	The steering wheel shall be on the left side. The cabin shall be a single-piece, double advanced, closed metal type with suspension and anti-corrosion protection;	YES, the steering wheel is on the left side. The cabin is a single-piece, double advanced, closed metal type with suspension and anti-corrosion protection;	MAN Vehicle description	
3.2.9.2.	The cabin shall be manufactured and tested complying to ECE R29-3 standard;	YES, the cabin is manufactured and tested complying to ECE R29-3 standard;		
3.2.9.2.1.	Manual folding of the cabin shall be possible with a hydraulic system;	YES, manual folding of the cabin is possible with a hydraulic system;		
3.2.9.2.2.	Equipped with 4 doors and 1+5 seats and all seats shall have seat belts in compliance with legal requirements;	YES, equipped with 4 doors and 1+5 seats and all seats have seat belts in compliance with legal requirements;		
3.2.9.2.3.	The floor in the crew compartment shall be covered with ribbed aluminum sheet with increased level of slip protection and easy to clean;	YES, the floor in the crew compartment is covered with ribbed aluminum sheet with increased level of slip protection and easy to clean;		
3.2.9.2.4.	The driver's seat shall have pneumatic suspension and be adjustable in at least two directions;	Yes, the driver's seat has pneumatic suspension and is adjustable in 3 directions: front/back + up/down + reclinable backrest;		
3.2.9.2.5.	Sun visors mounted on the interior and exterior of the windshield;	YES, sun visors mounted on the interior and exterior of the windshield;	MAN Vehicle description	
3.2.9.2.6.	Heated rearview mirrors with electric or manual adjustment;	YES, heated rearview mirrors with electric adjustment;	MAN Vehicle description	
3.2.9.2.7.	Front and front right cabin external blind spot mirrors with electric or manual adjustment;	YES, front and front right cabin external blind spot mirrors with manual adjustment;	MAN Vehicle description	
3.2.9.2.8.	All lateral windows with electric or manual control;	YES, front lateral windows with electric control and rear lateral windows with manual controls;	MAN Vehicle description	
3.2.9.2.9.	The cabin must be equipped with one climate control system (with automatic heating and air conditioning);	YES, the cabin is equipped with CLIMATRONIC system (with automatic heating and air conditioning);	MAN Vehicle description	
3.2.9.2.10.	The cabin must be equipped with an additional autonomous heating system for the cabin, using diesel fuel directly from the vehicle's	YES, the cabin is equipped with an additional autonomous heating system for the cabin, using diesel fuel directly from the vehicle's	MAN Vehicle description	



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	tank. This feature shall be able to be used both while traveling to and from response missions and while stationary at the response site;	tank. This feature can be used both while traveling to and from response missions and while stationary at the response site;		
<b>3.2.9.2.11.</b>	The color of the cabin shall be red, shade RAL 3000. Car wrapping (stickers or film) is not permitted;	YES, the color of the cabin is red: RAL 3000, <u>painted</u> , not wrapped (stickers or film);	MAN Vehicle description	
<b>3.2.9.2.12.</b>	Vehicle AM/FM radio with multifunction display and USB connections, integrated into the vehicle's dashboard, with a minimum of four speakers;	YES, vehicle AM/FM radio with multifunction display and USB connections – <b>MAN Mediasystem Navigation Professional 12,3"</b> , integrated into the vehicle's dashboard, with <b>MAN Soundsystem</b> with six speakers;		
<b>3.2.9.2.13.</b>	Satellite navigation system based on GPS or Galileo with Android Auto/Apple CarPlay, with updated maps of the Republic of Moldova and Europe. With maps updating capability by the owner of the vehicle;	YES, satellite navigation system based on GPS with Android Auto/Apple CarPlay, with updated maps of the Republic of Moldova and Europe. With maps updating capability by the owner of the vehicle;		
<b>3.2.9.2.14.</b>	A rearview HD (1920x1080) camera that activates automatically when reversing, with integrated rear parking sensors;	<p>YES, kit consisting of:</p> <ul style="list-style-type: none"> <li>- <b>1 rearview HD (1920x1080)</b> camera that activates automatically when reversing – model LG;</li> <li>- <b>1 monitor (native display, 7-inch, HD IPS screen)</b> installed on the dashboard – model Lenovo;</li> <li>- <b>1 set of rear parking sensors (4 pcs.)</b> – model Steelmate PTS411EX;</li> </ul> <p><i>The kit's specifications may be updated according to the producer range of products at the moment of the final vehicle production with keeping the technical features: <u>resolution of camera</u>, etc.</i></p>		
<b>3.2.9.2.15.</b>	A traffic recording camera device that records on an SD or microSD card (the card shall be delivered with the vehicle, compatible with the recording device, with a minimum capacity of 64 GB, at least Class 10+ with a minimum transfer rate of 10 MB/s), with a minimum video recording resolution of 1920 x 1080@30 fps Full HD. It shall allow video recording (including data on vehicle speed and GPS position), so the route and road traveled are monitored (regardless of whether acoustic and light signals are active). During stationary periods with the engine off, the recording function shall deactivate automatically, and it shall activate automatically when the engine starts. Necessary accessories for data download shall also	A traffic recording camera device that records on an SD or microSD card (the card shall be delivered with the vehicle, compatible with the recording device, with a minimum capacity of 64 GB, at least Class 10+ with a minimum transfer rate of 10 MB/s), with a minimum video recording resolution of 1920 x 1080@30 fps Full HD. It shall allow video recording (including data on vehicle speed and GPS position), so the route and road traveled are monitored (regardless of whether acoustic and light signals are active). During stationary periods with the engine off, the recording function shall deactivate automatically, and it shall activate automatically when the engine starts. Necessary accessories for data download shall also		

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	be provided. Depending on the technical solution adopted for the camera device (integrated or not within the cabin's interior elements), a mounting system shall be provided to allow its use.	be provided. Depending on the technical solution adopted for the camera device (integrated or not within the cabin's interior elements), a mounting system shall be provided to allow its use.		
<b>3.2.10.</b>	<b>Additional Equipment:</b>	<b>Additional Equipment:</b>		
<b>3.2.10.1.</b>	<b>Acoustic and Optical Warning System</b>	<b>Acoustic and Optical Warning System</b>		
<b>3.2.10.1.1.</b>	A light bar, minimum 1200 mm. in length and no wider than the cabin, mounted on the roof at the front top of the cabin, with blue LED strobe modules, protected by a stainless-steel grille for impact resistance, with the following specifications:	YES, light bar, 1890 mm in length and no wider than the cabin, mounted on the roof at the front top of the cabin, with blue LED strobe modules, protected by a stainless-steel grille for impact resistance, with the following specifications: model <b>ARMAS SPARK-L</b> .		
<b>3.2.10.1.1.1.</b>	Four blue side modules and two white modules symmetrically positioned on either side of the centrally located acoustic module;	YES, four blue side modules and two white modules symmetrically positioned on either side of the centrally located acoustic module;		
<b>3.2.10.1.1.2.</b>	Each optical module shall contain minimum 24 LEDs, with a minimum output of 50 lumens per LED and a flash rate of at least 50 flashes per minute.	YES, the light bar is modernized according to the current standards ad requirements and it has: optical modules with 9 LED lights each with 3W / module, ensuring a <b>luminous flux of 1,800 lumens / module with a frequency of 50 flashes / minute.</b>		
<b>3.2.10.1.1.3.</b>	The length of each optical module shall be minimum one-third of the total light bar length (with maximum allowable dimensions after the speaker is mounted);	YES, the length of each optical module is one-third of the total light bar length (with maximum allowable dimensions after the speaker is mounted);		
<b>3.2.10.1.1.4.</b>	Polycarbonate lenses and covers for maximum visual effect and anti-fogging;	YES, polycarbonate lenses and covers for maximum visual effect and anti-fogging;		
<b>3.2.10.1.1.5.</b>	Corrosion and water-resistant protection bar.	YES, corrosion and water-resistant protection bar.		
<b>3.2.10.1.2.</b>	The acoustic module shall include one or more speakers:	Yes, the acoustic module shall include one speaker: <b>ARMAS Expert-100</b> .		
<b>3.2.10.1.2.1.</b>	Acoustic signal generator with at least three tone options;	Acoustic signal generator with at 5 (five) tones;		
<b>3.2.10.1.2.2.</b>	Peak power of minimum 150W;	Peak power: 150W;		
<b>3.2.10.1.2.3.</b>	External audio input with switchable capability for voice message transmission via microphone.	YES, external audio input with switchable capability for voice message transmission via microphone.		

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3.2.10.1.3.	LED "flash" type optical signal system with eight blue lamps, each with at least 8 LEDs, protected by a stainless-steel grille, with the placement as follows: <ul style="list-style-type: none"><li>- 2 lamps at the front of the cabin at radiator level;</li><li>- 2 lamps at the upper rear of the vehicle, integrated into the superstructure;</li><li>- 2 lamps on each lateral upper side integrated into the superstructure.</li></ul>	YES, LED "flash" type optical signal system with 8 (eight) blue lamps, each with at 12 LEDs – model <b>SANMAK SA 7025-12</b> , protected by a stainless-steel grille, with the placement as follows: <ul style="list-style-type: none"><li>- 2 lamps at the front of the cabin at radiator level.</li><li>- 2 lamps at the upper rear of the vehicle, integrated into the superstructure.</li><li>- 2 lamps on each lateral upper side integrated into the superstructure.</li></ul>		
3.2.10.1.4.	A sequence of blue LED "flash" lamps/modules with a flash frequency of minimum 50 flashes per minute integrated into the container's sides (covering minimum 50% of the container length symmetrically) emitting a minimum of 50 lumens per LED and minimum 8 LEDs/module;	YES, a sequence of blue LED "flash" lamps/modules with a flash frequency of minimum 50 flashes per minute integrated into the container's sides (covering minimum 50% of the container length symmetrically) emitting a 65 lumens per LED and 12 LEDs / module: model <b>SANMAK SA 7025-12</b> .		
3.2.10.1.5.	Control box for the acoustic-optical warning system, mounted on the dashboard.	YES, control box for the acoustic-optical warning system, mounted on the dashboard.		
3.2.10.2.	An acoustic warning device that shall produce audible sound activated by reverse gear for vehicle's reverse movement.	An acoustic warning device that shall produce audible sound activated by reverse gear for vehicle's reverse movement.	MAN Vehicle description	
3.2.10.3.	<b>Work Area Lighting System:</b>	<b>Work Area Lighting System:</b>		
3.2.10.3.1.	A perimeter lighting system, integrated within the vehicle's overall dimensions, designed to enhance visibility around all sides of the fire vehicle in all working areas at all accessory and equipment compartments. The side and rear parts of the fire truck shall have at least two LED lamps of at least 1000 lumens each, with cool white light, directed towards the ground at a 45-degree angle. The lamps shall be positioned so as not to extend beyond the container dimensions and shall be protected from water and accidental impacts by a stainless-steel grille. Lamps mounted on the top are not accepted.	YES, a perimeter lighting system, integrated within the vehicle's overall dimensions, designed to enhance visibility around all sides of the fire vehicle in all working areas at all accessory and equipment compartments. The side and rear parts of the fire truck have <b>3 (three) LED lamps of 1450 lumens each</b> , with cool white light, directed towards the ground at a 45-degree angle. Model <b>SANMAK SA9118A</b> . The lamps are positioned so as not to extend beyond the container dimensions and are protected from water and accidental impacts by a stainless-steel grille.		
3.2.10.3.2.	The operation of the lighting systems from points 3.2.10.3.1. shall be carried out both from a control and command panel with a display in the cabin, according to point 3.3.3.6., and from the control and command panel in the rear compartment of the pumping unit, according to point 3.3.3.1., using dedicated "direct access" buttons,	YES, the operation of the lighting systems from points 3.2.10.3.1. is carried out both from a control and command panel with a display in the cabin, according to point 3.3.3.6., and from the control and command panel in the rear compartment of the pumping unit, according to point 3.3.3.1., using dedicated "direct access" buttons,	Firefighting Vehicle Sheet	

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	separate for each group (left side, right side, rear, and roof superstructure).	separate for each group (left side, right side, rear, and roof superstructure).		
<b>3.2.10.3.3.</b>	Cool white LED lamps (protected against water and dust according to IP67 or higher) installed inside the accessory and firefighting compartments shall ensure visibility within these areas, with automatic activation upon the opening/closing of shutters or doors. The number and positioning of lamps are to be determined by the manufacturer, based on compartment size and configuration, to provide suitable illumination for accessories, materials, controls, and other contents.	YES, cool white <b>LED light strips</b> (protected against water and dust according to IP67) installed inside the accessory and firefighting compartments ensure visibility within these areas, with automatic activation upon the opening/closing of shutters or doors. The number and positioning of lamps are determined by the manufacturer, based on compartment size and configuration, to provide suitable illumination for accessories, materials, controls, and other contents.		
<b>3.2.10.3.4.</b>	Telescopic mast for lighting, according to <b>Annex no. 2.</b>	YES, telescopic mast for lighting, according to <b>Annex no. 2: model FIRECO CL.3420.NZ</b>		
<b>3.2.10.4.</b>	The fire truck shall be equipped with a minimum metal protection shield for the engine, gearbox, transfer case, fuel tank. Additional protection will be provided for cables, pipes, elements sensitive to exposure to humidity, sun, dust, corrosion and abrasion.	YES, the fire truck is equipped with a minimum metal protection shield for the engine, gearbox, transfer case, fuel tank. Additional protection is provided for cables, pipes, elements sensitive to exposure to humidity, sun, dust, corrosion and abrasion.	Firefighting Vehicle Sheet	
<b>3.2.10.5.</b>	Access areas for personnel in the cabin/crew compartment or on the roof of the superstructure, as appropriate, shall be illuminated and made of non-slip, corrosion-resistant materials suitable for intensive use.	YES, access areas for personnel in the cabin/crew compartment or on the roof of the superstructure, as appropriate, are illuminated and made of non-slip, corrosion-resistant materials suitable for intensive use: aluminum checkered sheets.		
<b>3.2.10.6.</b>	Additional original chassis manufacturer's system for windshield de-icing/defogging, specially designed for use when the fire truck is stationary.	YES, additional original chassis manufacturer's system for windshield de-icing/defogging, specially designed for use when the fire truck is stationary.	MAN Vehicle description	
<b>3.2.10.7.</b>	The vehicle shall not be equipped with a tachograph.	YES, the vehicle shall not be equipped with a tachograph.	MAN Vehicle description	
<b>3.3.</b>	<b>SPECIAL FACILITIES:</b>	<b>SPECIAL FACILITIES:</b>		
<b>3.3.1.</b>	<b>Fire extinguishing installation:</b>	<b>Fire extinguishing installation:</b>		
<b>3.3.1.1.</b>	Power take-off (PTO) - driven fire pump shall be located at the rear of the vehicle and to be made out of corrosion resistant alloy according to EN 1028;	YES, power take-off (PTO) - driven fire pump is located at the rear of the vehicle and is made out of corrosion resistant alloy according to EN 1028;		
<b>3.3.1.2.</b>	PTO fire pump unit, with an automatic priming device, with at least one stage per pressure setting (one stage for low pressure 0 - 10 bar	YES, PTO fire pump unit, with an automatic priming device, with one stage per pressure setting ( <b>two stages for low pressure 0 - 10</b>		

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	and a second stage for high pressure 30 - 40 bar). Priming shall be achieved within a maximum of 60 seconds, at a suction height of 7.5 meters on a 4-inch (Type A) inlet;	<b>bar and three stages for high pressure 30 - 40 bar</b> ). Priming is achieved within a maximum of 60 seconds, at a suction height of 7.5 meters on 2 (two) 4-inch (Type A) inlet: <b>model Ziegler FPN 10-3000-2H + FPH 4-250-3H.</b>		
<b>3.3.1.3.</b>	The pump unit shall provide both low and high-pressure water discharge, as well as foam solution discharge, with a foam proportioning system that ensures a constant mixing ratio between 0.1% and 6%, with fractions/steps of 0.1%, regardless of the water flow and pressure. It shall operate with at least 3 types of foam concentrate;	YES, the pump unit provides both low and high-pressure water discharge, as well as foam solution discharge, with a foam proportioning system (model: <b>Ziegler PHJ100</b> ) that ensures a constant mixing ratio between 0% and 6%, with fractions/steps of 0.1%, regardless of the water flow and pressure. It operates with the following types of foam concentrate:  <ol style="list-style-type: none"> <li>1. AFFF 3%, 6%;</li> <li>2. Fluor proteinic 3%, 6%;</li> <li>3. Universal 1%, 6%;</li> <li>4. Synthetic 3%, 6%</li> </ol>		
<b>3.3.1.4.</b>	The pump unit shall allow the water tank to be filled from pressurized sources (hydrants) via two Type B inlets and from non-pressurized sources via a Type A inlet;	YES, the pump unit allows the water tank to be filled from pressurized sources (hydrants) via two Type B inlets and from non-pressurized sources via two Type A inlets;		
<b>3.3.1.5.</b>	Water discharge performance: minimum flow of 2500 l/min at 10 bars and minimum 400 l/min at 30 - 40 bar. Valve taps with a flap shall not be used;	YES, water discharge performance:  <ul style="list-style-type: none"> <li>• <b><u>flow of 3000 l/min at 10 bars and</u></b></li> <li>• <b><u>400 l/min at 30 - 40 bar.</u></b></li> </ul> Valve taps with a flap are not used;		
<b>3.3.1.6.</b>	Suction hoses equipped with a water filtration system (at least two 4-inch hose for natural water sources);	YES, suction hoses equipped with a water filtration system (two 4-inch hose for natural water sources);	Firefighting Vehicle Sheet	
<b>3.3.1.7.</b>	Two Type B inlets for water supply from pressurized sources, with a water impurity retention system, located on the rear side, one on the left and one on the right;	YES, two Type B inlets for water supply from pressurized sources, with a water impurity retention system, located on the rear side, one on the left and one on the right;	Firefighting Vehicle Sheet	
<b>3.3.1.8.</b>	Connecting hoses, low-pressure water and foam discharge hoses: <ul style="list-style-type: none"> <li>- 2 Type B discharges placed laterally at the rear of the fire truck, one on the left and one on the right;</li> <li>- 2 Type C discharges placed laterally at the rear of the fire truck, one on the left and one on the right;</li> </ul>	YES, connecting hoses, low-pressure water and foam discharge hoses: <ul style="list-style-type: none"> <li>- 2 Type B discharges placed laterally at the rear of the fire truck, one on the left and one on the right;</li> </ul>	Firefighting Vehicle Sheet	

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	<ul style="list-style-type: none"> <li>- Manual depressurization systems shall be installed on the Type B and C discharge hoses;</li> <li>- The fire truck shall be equipped with 6 low-pressure water discharge nozzles, 2 Type B and 4 Type C, in accordance with the requirements in <b>Annex no. 1</b>, points 44 and 45.</li> </ul>	<ul style="list-style-type: none"> <li>- 2 Type C discharges placed laterally at the rear of the fire truck, one on the left and one on the right;</li> <li>- Manual depressurization systems installed on the Type B and C discharge hoses;</li> <li>- The fire truck is equipped with 6 low-pressure water discharge nozzles, 2 Type B and 4 Type C, in accordance with the requirements in <b>Annex no. 1</b>, points 44 and 45.</li> </ul>		
<b>3.3.1.9.</b>	All inlets and discharges shall be located inside the superstructure at the lower part. They shall not exceed the lower level of the access hatches to the superstructure, to avoid interfering with the vehicle's passage capacity. Access to these shall be quick, easy, and convenient, and they shall be protected against freezing during travel/parking with aluminum hatches/blinds/covers/doors;	YES, all inlets and discharges are located inside the superstructure at the lower part. They do not exceed the lower level of the access hatches to the superstructure, to avoid interfering with the vehicle's passage capacity. Access to these is quick, easy, and convenient, and they are protected against freezing during travel/parking with aluminum hatches/blinds/covers/doors;	Firefighting Vehicle Sheet	
<b>3.3.1.10.</b>	High-pressure hoses wound on two reels, one on each side of the fire truck (each reel shall have 3 high-pressure hose segments, one 30 m and two 15 m, with connections to the reel of the same type as those between the segments, and shall be equipped with quick couplings of reduced dimensions, so that when winding the hose, the circular shape of the hose is not affected), with high-pressure water discharge devices (2 discharge nozzles, adapted for high pressure). The operation of the reels shall be electric and manual. The discharge nozzles shall comply with the requirements in <b>Annex no. 1</b> , point 46.	<p>YES, high-pressure hoses wound on two reels, one on each side of the fire truck (each reel has 3 high-pressure hose segments, one 30 m and two 15 m, with connections to the reel of the same type as those between the segments, and are equipped with quick couplings of reduced dimensions, so that when winding the hose, the circular shape of the hose is not affected), with high-pressure water discharge devices (2 discharge nozzles, adapted for high pressure). The operation of the reels is electric and manual. The discharge nozzles comply with the requirements in <b>Annex no. 1</b>, point 46.</p> <ul style="list-style-type: none"> <li>- Hose-reel: <b>MALECO MLH 25-60 (electrical)</b></li> <li>- Discharge nozzle: <b>LEADER Trigger Flow 150 Compact</b>.</li> </ul>		
<b>3.3.1.11.</b>	The high-pressure extinguishing system shall be equipped with a pneumatic purging system to remove water from the system (purging system), using air from the braking system. The pneumatic purging system shall always be connected to both the braking system and the high-pressure extinguishing system. Its operation shall be controlled by two valves: one to select between the two circuits (water and air), and one to release air from the braking system into the high-pressure system to remove water from the high-pressure hoses.	YES, the high-pressure extinguishing system is equipped with a pneumatic purging system to remove water from the system (purging system), using air from the braking system. The pneumatic purging system is always connected to both the braking system and the high-pressure extinguishing system. Its operation is controlled by two valves: one to select between the two circuits (water and air), and one to release air from the braking system into the high-pressure system to remove water from the high-pressure hoses.	Firefighting Vehicle Sheet	
<b>3.3.1.12.</b>	Water and foam discharge turret with adjustable jet shape (compact, conical, and dispersed as a protective curtain) mounted on the fire	YES, water and foam discharge turret with adjustable jet shape (compact, conical, and dispersed as a protective curtain) mounted		

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	truck. It shall feature both manual and electronic control (with a joystick-equipped control panel located inside the cabin, as well as wireless remote control). The turret shall be capable of continuous 360° horizontal rotation or a minimum of 180° left/right relative to the driving direction, and a vertical movement range of at least -15° to +75° across the entire rotation circumference. The horizontal water jet length shall be at least 60 m at an operating pressure of 14 bar, with the turret nozzle equipped with a 26–30 mm diameter orifice. The average foam jet length shall be approximately 50 m, with a foam discharge rate of at least 10 m³/min. In transport mode, the turret must be foldable to fit within the prescribed dimensional limits. The turret shall include a height adjustment system for the working position, and its flow rate shall be minimum 2500 l/min.	on the fire truck. It features both manual and electronic control (with a joystick-equipped control panel located inside the cabin, as well as wireless remote control). The turret is capable of continuous 360° horizontal rotation and a vertical movement range of -35° to +85° across the entire rotation circumference. The horizontal water jet length is at least 60 m at an operating pressure of 7 bar, with the turret nozzle equipped with a 26–30 mm diameter orifice. The average foam jet length is approximately 50 m, with a foam discharge rate of at least 10 m³/min. In transport mode, the turret is foldable to fit within the prescribed dimensional limits. The turret includes a height adjustment system for the working position, and its flow rate is maximum 4000 l/min. Model: <b>POK Kalipyge</b> .		
<b>3.3.1.13.</b>	Water tank equipped with overflow, inspection cap (providing access for a person inside), and drain valve, with wave breakers and shock-absorbing system for transport. The sealing and insulation between the water tank and the bodywork shall prevent water and condensate infiltration:	YES, water tank is equipped with overflow, inspection cap (providing access for a person inside) and drain valve, with wave breakers and shock-absorbing system for transport. The sealing and insulation between the water tank and the bodywork prevents water and condensate infiltration.		
<b>3.3.1.13.1.</b>	Material type: composite type GRP or PAFS (equipped with wave breakers);	Material type: <b>GRP</b> (equipped with wave breakers). <u><i>It allows transport of drinkable water if needed for disasters and calamities.</i></u>		
<b>3.3.1.13.2.</b>	Capacity: 4000 liters ± 10%.	Capacity: <b>4000 liters ± 10%.</b>		
<b>3.3.1.14.</b>	Foam tank(s) with filling and emptying capability:	YES, <b>one foam tank</b> with filling and emptying capability:		
<b>3.3.1.14.1.</b>	Material type: composite type GRP or PAFS;	Material type: <b>GRP</b> ;		
<b>3.3.1.14.2.</b>	Total capacity: 400 liters ± 10% (one 400-liter tank ± 10% or two interconnected 200-liter tanks ± 10% each).	Total capacity: <b>one 400 liters ± 10%.</b>		
<b>3.3.1.14.3.</b>	The foam tank(s) shall not be embedded in the water tank and shall have an inspection cap and wave breakers.	The foam tank(s) is <b>not embedded</b> in the water tank and it has an inspection cap and wave breakers.		
<b>3.3.2.</b>	<b>Special accessories</b>	<b>Special accessories</b>		
<b>3.3.2.1.</b>	The superstructure shall be modular or monobloc, independent of the cabin, with attachment to the chassis by means of a metal frame and appropriately sized buffers. The mounting supports, shelves, drawers, sliding panels (if applicable) on which the accessories are	YES, the superstructure is monobloc, independent of the cabin, with attachment to the chassis by means of a metal frame and appropriately sized buffers. The mounting supports, shelves, drawers, sliding panels (if applicable) on which the accessories are positioned and made of durable materials with corrosion protection.	Firefighting Vehicle Sheet	

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	positioned shall be made of durable materials with corrosion protection.			
3.3.2.1.1.	The attachment of the superstructure frame profiles shall be done using removable assemblies;	YES, the attachment of the superstructure frame profiles is done using removable assemblies;	Firefighting Vehicle Sheet	
3.3.2.1.2.	The roof of the superstructure shall have an increased slip resistance level (covered with corrugated aluminum sheet), reinforced to prevent buckling under the weight of the crew and shall withstand a minimum weight of 300 kg, not including the equipment placed on it;	YES, the roof of the superstructure has an increased slip resistance level (covered with corrugated aluminum sheet), reinforced to prevent buckling under the weight of the crew and it withstands a minimum weight of 300 kg, not including the equipment placed on it;	Firefighting Vehicle Sheet	
3.3.2.1.3.	The panels for the shelves shall be attached with countersunk screws to avoid injury to personnel and damage to the equipment. The use of rivets or self-tapping screws for assembly is not permitted.	YES, the panels for the shelves are attached with countersunk screws to avoid injury to personnel and damage to the equipment. The rivets or self-tapping screws for assembly will not be used.	Firefighting Vehicle Sheet	
3.3.2.2.	<b>Compartments:</b>	<b>Compartments:</b>		
3.3.2.2.1.	Placement of accessory compartments: on the sides and rear, closed with anodized aluminum blinds;	YES, placement of accessory compartments: on the sides and rear, closed with anodized aluminum blinds;	Firefighting Vehicle Sheet	
3.3.2.2.2.	equipped with shelves (ensuring the possibility of subsequent repositioning of shelves at different heights depending on the specific equipment), drawers, mounting supports, lighting lamps, etc., including in the crew cabin;	YES, equipped with shelves (ensuring the possibility of subsequent repositioning of shelves at different heights depending on the specific equipment), drawers, mounting supports, lighting lamps, etc., including in the crew cabin;	Firefighting Vehicle Sheet	
3.3.2.2.3.	The blinds for closing the accessory compartments shall be made of anodized aluminum alloy;	YES, the blinds for closing the accessory compartments are made of anodized aluminum alloy. Model: <b>MCD</b> .	Technical Sheet	
3.3.2.2.4.	The side panels shall be closed with blinds equipped with locks and keys, insulated against water infiltration;	YES, the side panels are closed with blinds equipped with locks and keys, insulated against water infiltration;		
3.3.2.2.5.	The rear part (access to the fire pump controls) shall be equipped with an anodized aluminum blind or a top hinged hatch equipped with gas struts, with locks and keys, insulated against water infiltration, and shall provide access and operation of the fire pump unit.	YES, the rear part (access to the fire pump controls) is equipped with an anodized aluminum blind, with locks and keys, insulated against water infiltration, and it provides access and operation of the fire pump unit.	Firefighting Vehicle Sheet	



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3.3.2.2.6.	The use of pop rivets or self-tapping screws for assembly is not allowed. The blind(s) shall be properly sealed to prevent the entry of water, mud, etc., during travel. The space in the accessory and equipment compartment shall ensure the storage of at least 3 Type B hoses, in a loop, in special supports, and shall be located near a Type B water discharge outlet, allowing for quick connection to the pumping system. Heavy accessories and units shall be positioned on the floor of the fire truck, while lighter accessories shall be placed at the top of the fire truck.	YES, pop rivets or self-tapping screws for assembly are not used. The blind(s) are properly sealed to prevent the entry of water, mud, etc., during travel. The space in the accessory and equipment compartment ensures the storage of at least 3 Type B hoses, in a loop, in special supports, and is located near a Type B water discharge outlet, allowing for quick connection to the pumping system. Heavy accessories and units are positioned on the floor of the fire truck, while lighter accessories are placed at the top of the fire truck.	Firefighting Vehicle Sheet	
3.3.2.3.	Accessories arranged in the lower part shall be located in such a way as to allow access from the ground without the need for personnel to climb inside the superstructure to gain access to various accessories.	YES, accessories arranged in the lower part are located in such a way as to allow access from the ground without the need for personnel to climb inside the superstructure to gain access to various accessories.	Firefighting Vehicle Sheet	
3.3.2.4.	For the accessories arranged on the upper part, hinged access hatches that can withstand the weight of two people and the handled accessories (minimum 300 kg) shall be mounted at the base of the superstructure. They shall be equipped with hydraulic struts (shock absorbers) with an automatic closing system, additionally provided with a key, with orange reflectors (LED lamps installed on the sides with flashing light to allow their highlighting/gauge in the open position are optional).	YES, for the accessories arranged on the upper part, hinged access hatches that can withstand the weight of two people and the handled accessories (minimum 300 kg) are mounted at the base of the superstructure. They are equipped with hydraulic struts (shock absorbers) with an automatic closing system, additionally provided with a key, with orange reflectors (LED lamps installed on the sides with flashing light to allow their highlighting/gauge in the open position are optional). Orange reflectors LED lamps model: <b>SANMAK SA 7001</b> .		
3.3.2.5.	The suction hoses, the sliding ladder, the pike pole with a handle and extension, the shovel, the rake, the wildfire batter, the window ladder, etc. shall be mounted securely on the roof of the superstructure. The use of fastening systems similar to straps or leather belts for securing and fastening these items is excluded. The suction hoses and other equipment stored on the roof of the superstructure shall be secured by placing them in closed boxes (crates) equipped with a locking system (made of aluminum and illuminated inside with LED technology when opened), which shall provide protection against damage and movement during travel. The tank shall allow access for repairs or cleaning. Access to the roof of the fire truck shall be made via a ladder that shall support a minimum weight of 150 kg, made of anodized aluminum, located	YES, the suction hoses, the sliding ladder, the pike pole with a handle and extension, the shovel, the rake, the wildfire batter, the window ladder, etc. are mounted securely on the roof of the superstructure. The use of fastening systems similar to straps or leather belts for securing and fastening these items is excluded. The suction hoses and other equipment stored on the roof of the superstructure are secured by placing them in closed boxes (crates) equipped with a locking system (made of aluminum and illuminated inside with LED lamp when opened), which provides protection against damage and movement during travel. The tank allows access for repairs or cleaning. Access to the roof of the fire truck is made via a ladder that supports a minimum weight of 150 kg, made of anodized aluminum, located on the rear side of the vehicle, foldable	Firefighting Vehicle Sheet	

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	on the rear side of the vehicle, foldable towards the top of the truck, equipped with a locking system to keep it in the folded position.	towards the top of the truck, equipped with a locking system to keep it in the folded position.		
3.3.2.6.	All shelves, drawers, sliding panels and storage boxes made of metal in the composition of the superstructure shall be constructed with rounded edges. Sharp or cutting edges are not allowed. Drawers, sliding panels, shall be secured against accidental opening and shall be sized to support at least twice the weight of the accessories they shall contain.	YES, all shelves, drawers, sliding panels and storage boxes made of metal in the composition of the superstructure are constructed with rounded edges. Sharp or cutting edges are not allowed. Drawers, sliding panels, are secured against accidental opening and are sized to support at least twice the weight of the accessories they shall contain.	Firefighting Vehicle Sheet	
3.3.2.7.	Regardless of the solution adopted by the bidder the crew seats (excluding the driver's seat) shall be specially designed for self-contained breathing apparatus (equipped with a backrest, a reclining seat, and a headrest that accommodates the breathing apparatus and allows easy unlocking by operating a handle), and a support for a full breathing apparatus, so that it does not pose a risk to the personnel in the event of an accident. Additionally, the seats shall be made of waterproof materials resistant to stains, wear, and abrasion and shall allow for easy cleaning.	YES, considering the type of the cabin offered (MAN double cab), the crew seats (excluding the driver's seat) are specially designed for self-contained breathing apparatus (equipped with a backrest, a reclining seat, and a headrest that accommodates the breathing apparatus and allows easy unlocking by operating a handle), and a support for a full breathing apparatus, so that it does not pose a risk to the personnel in the event of an accident. The seats are made of waterproof materials resistant to stains, wear, and abrasion and shall allow for easy cleaning. Model: <b>FASP</b> .		
3.3.2.8.	The accessories shall be secured in/on drawers, the floor, doors, or side walls with a quick locking/unlocking system. The use of fastening systems similar to straps or leather belts is excluded. The discharge hoses shall each have an individual designated location and shall be secured with textile straps with Velcro fasteners, labelled for each type of hose.	YES, the accessories are secured in/on drawers, the floor, doors, or side walls with a quick locking/unlocking system. Fastening systems similar to straps or leather belts will not be used. Each discharge hose has an individual designated location and is secured with textile straps with Velcro fasteners, labelled for each type of hose.	Firefighting Vehicle Sheet	
3.3.2.9.	To prevent the formation of ice, a warm air heating system shall be installed in the fire pump compartment, using diesel fuel directly from the truck's fuel tank. This system shall be operable both during travel to and from intervention missions and while stationary at the intervention site.	YES, to prevent the formation of ice, a warm air heating system is installed in the fire pump compartment, using diesel fuel directly from the truck's fuel tank. This system is operable both during travel to and from intervention missions and while stationary at the intervention site. Model: <b>EBERSPACHER Airtronic D2L 24V 2.2 kW</b> .		
3.3.2.10.	All equipment and accessories not secured in/on drawers, floor, doors or side walls shall be compartmentalized in heavy-duty plastic boxes with handles for handling. On the boxes you shall find a list (in Romanian language) of the material goods contained (moisture-resistant format), for easier identification during the intervention. The boxes shall be numbered, and the complete inventory of the	YES, all equipment and accessories not secured in/on drawers, floor, doors or side walls are compartmentalized in heavy-duty plastic boxes with handles for handling. On the boxes you shall find a list (in Romanian language) of the material goods contained (moisture-resistant format), for easier identification during the intervention. The boxes are numbered, and the complete inventory	Firefighting Vehicle Sheet	

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	vehicle that shall be supplied shall be structured in the order of the boxes.	of the vehicle that shall be supplied is structured in the order of the boxes.		
<b>3.3.3.</b>	<b>Control and Command System:</b>	<b>Control and Command System:</b>		
<b>3.3.3.1.</b>	The main control and command panel shall be reinforced, vibration-free, not mounted on the pump body, and of the "classic" type (without a display, located in the pump compartment). It shall be positioned at the rear of the vehicle, within the pump compartment, and capable of performing at least the following functions:	YES, the main control and command panel is reinforced, vibration-free, not mounted on the pump body, and of the "classic" type (without a display, located in the pump compartment). It is positioned at the rear of the vehicle, within the pump compartment, and capable of performing at least the following functions:	Firefighting Vehicle Sheet	
<b>3.3.3.1.1.</b>	Starting and stopping the engine;	Starting and stopping the engine;		
<b>3.3.3.1.2.</b>	Engaging and disengaging the pump with the vehicle chassis transmission;	Engaging and disengaging the pump with the vehicle chassis transmission;		
<b>3.3.3.1.3.</b>	Controlling engine throttle;	Controlling engine throttle;		
<b>3.3.3.1.4.</b>	Maintaining a constant engine throttle;	Maintaining a constant engine throttle;		
<b>3.3.3.1.5.</b>	The use and operation of the water/foam turret mounted on the fire truck;	The use and operation of the water/foam turret mounted on the fire truck;		
<b>3.3.3.1.6.</b>	Displaying the following parameters using analogue devices: <ul style="list-style-type: none"> <li>- Engine throttle;</li> <li>- PTO pump speed;</li> <li>- Pump working pressure;</li> <li>- Vacuum required for priming the pump;</li> <li>- Water temperature in the pump;</li> <li>- Water level in the tank;</li> <li>- Foam agent level in the tank;</li> </ul>	Displaying the following parameters using <u>analogue devices</u> : <ul style="list-style-type: none"> <li>- Engine throttle;</li> <li>- PTO pump speed;</li> <li>- Pump working pressure;</li> <li>- Vacuum required for priming the pump;</li> <li>- Water temperature in the pump;</li> <li>- Water level in the tank;</li> <li>- Foam agent level in the tank;</li> </ul>		
<b>3.3.3.1.7.</b>	Audible and visual signaling of the following warnings: <ul style="list-style-type: none"> <li>- Maximum water temperature in the pump;</li> <li>- Cavitation occurrence;</li> <li>- Overpressure in the pump;</li> <li>- The water/foam turret and the telescopic lighting mast on the superstructure, as well as the access hatches to the superstructure, and the shutters, when not in march position (retracted/closed), shall be unlocked independently for each category of equipment/subassembly (lighting mast, access</li> </ul>	Audible and visual signaling of the following warnings: <ul style="list-style-type: none"> <li>- Maximum water temperature in the pump;</li> <li>- Cavitation occurrence;</li> <li>- Overpressure in the pump;</li> <li>- The water/foam turret and the telescopic lighting mast on the superstructure, as well as the access hatches to the superstructure, and the shutters, when not in march position (retracted/closed), is unlocked independently for each category of equipment/subassembly (lighting mast, access hatches, and</li> </ul>		

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	hatches, and shutters) upon release of the handbrake (parking) in preparation for the start of movement.	shutters) upon release of the handbrake (parking) in preparation for the start of movement.		
3.3.3.2.	The control and command system shall include an additional non-touchscreen display, reinforced to avoid vibrations and not mounted on the pump body. It shall be located at the rear of the vehicle, within the pump compartment, automatically activating when the rear shutter of the pump compartment is opened and deactivating when it is closed. It shall display at least the following parameters: <ul style="list-style-type: none"> <li>- Pump working pressure;</li> <li>- Water level in the tank;</li> <li>- Foam agent level in the tank;</li> </ul>	YES, the control and command system include an <u>additional non-touchscreen display</u> , reinforced to avoid vibrations and not mounted on the pump body. It is located at the rear of the vehicle, within the pump compartment, automatically activating when the rear shutter of the pump compartment is opened and deactivating when it is closed. It displays at least the following parameters: <ul style="list-style-type: none"> <li>- Pump working pressure;</li> <li>- Water level in the tank;</li> <li>- Foam agent level in the tank;</li> </ul>	Firefighting Vehicle Sheet	
3.3.3.3.	The command-and-control system shall allow the simultaneous use of all discharge lines.	YES, the command-and-control system allows the simultaneous use of all discharge lines.		
3.3.3.4.	The command-and-control system shall allow the mixing of water and foam concentrate and ensure a constant mixing ratio between 1% and 6%, with fractions/rates in increments of 0,1%, regardless of water flow and pressure, and shall allow the cleaning of the foam proportioning system and the discharge system.	YES, the command-and-control system allows the mixing of water and foam concentrate, and ensure a constant mixing ratio between 0% and 6%, with fractions/rates in increments of 0.1%, regardless of water flow and pressure, and it allows the cleaning of the foam proportioning system and the discharge system.		
3.3.3.5.	If the pumping unit cannot be coupled/decoupled from the dedicated button(s) on the control panel as per section 3.3.3.1.2., coupling/decoupling shall be carried out from the cabin by operating the power take-off coupling/decoupling control, as an emergency solution when the controls on the control panels are not functioning.	YES, if the pumping unit cannot be coupled/decoupled from the dedicated button(s) on the control panel as per section 3.3.3.1.2., coupling/decoupling shall be carried out from the cabin by operating the power take-off coupling/decoupling control, as an emergency solution when the controls on the control panels are not functioning.		
3.3.3.6.	Secondary control panel with a "non-touchscreen display", located <b>in the cabin</b> , which shall ensure <b>at least</b> the following:	YES, <u>secondary control panel</u> with a "non-touchscreen display", located <b>in the cabin</b> , which ensures the following:		
3.3.3.6.1.	Coupling and decoupling of the pumping unit to the chassis transmission;	Coupling and decoupling of the pumping unit to the chassis transmission;		
3.3.3.6.2.	Control of engine throttle;	Control of engine throttle;		
3.3.3.6.3.	Maintenance of a constant engine throttle;	Maintenance of a constant engine throttle;		
3.3.3.6.4.	The use and operation of the water/foam turret mounted on the fire truck;	The use and operation of the water/foam turret mounted on the fire truck;		
3.3.3.6.5.	Displaying the following parameters on the screen:	YES, displaying the following parameters on the screen:		

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	<ul style="list-style-type: none"> <li>- Pumping unit speed;</li> <li>- Working pressure of the pumping unit;</li> <li>- Water temperature in the pumping unit;</li> <li>- Water level in the tank</li> <li>- Foam concentrate level in the tank;</li> </ul>	<ul style="list-style-type: none"> <li>- Pumping unit speed;</li> <li>- Working pressure of the pumping unit;</li> <li>- Water temperature in the pumping unit;</li> <li>- Water level in the tank.</li> <li>- Foam concentrate level in the tank;</li> </ul>		
<b>3.3.3.6.6.</b>	<p>Acoustic and visual signaling for the following warnings:</p> <ul style="list-style-type: none"> <li>- Maximum water temperature in the pumping unit;</li> <li>- Cavitation phenomenon occurrence;</li> <li>- Overpressure occurrence in the pumping unit;</li> <li>- The telescopic lighting mast on the superstructure, as well as the access hatches to the superstructure, and the shutters when not in march position (retracted/closed), upon release of the handbrake (parking), in preparation for the start of movement, independently for each category of equipment/subassembly (lighting mast, access hatches, and shutters).</li> </ul>	<p>YES, acoustic and visual signaling for the following warnings:</p> <ul style="list-style-type: none"> <li>- Maximum water temperature in the pumping unit;</li> <li>- Cavitation phenomenon occurrence;</li> <li>- Overpressure occurrence in the pumping unit;</li> <li>- The telescopic lighting mast on the superstructure, as well as the access hatches to the superstructure, and the shutters when not in march position (retracted/closed), upon release of the handbrake (parking), in preparation for the start of movement, independently for each category of equipment/subassembly (lighting mast, access hatches, and shutters).</li> </ul>		
<b>3.3.3.7.</b>	Working position: accessible to the operator, allowing easy access to all controls on the pump panel, valves, etc.	YES, working position: accessible to the operator, allowing easy access to all controls on the pump panel, valves, etc.		
<b>3.4.</b>	Vehicle type TETRA radio terminal shall be installed in the vehicle cabin:	YES, vehicle type TETRA radio terminal is installed in the vehicle cabin:		
<b>3.4.1.</b>	The mobile communication module for vehicles is presented in "Annex no. 7";	The mobile communication module for vehicles is presented in "Annex no. 7";		
<b>3.4.2.</b>	<p>The communication equipment shall include:</p> <ul style="list-style-type: none"> <li>a) A fuse panel for all equipment, including warning devices;</li> <li>b) 12V DC bipolar power outlets for communication equipment, including electrical conductors, capable of supporting a current of 20 A and delivered with paired connectors;</li> <li>c) Bipolar outlets shall be installed in accessible locations and properly insulated;</li> <li>d) An antenna installed on the cabin with the antenna cable placed inside, with a TNC connector.</li> </ul>	<p>YES, the communication equipment includes:</p> <ul style="list-style-type: none"> <li>a) A fuse panel for all equipment, including warning devices;</li> <li>b) 12V DC bipolar power outlets for communication equipment, including electrical conductors, capable of supporting a current of 20 A and delivered with paired connectors;</li> <li>c) Bipolar outlets are installed in accessible locations and properly insulated;</li> <li>d) An antenna installed on the cabin with the antenna cable placed inside, with a TNC connector.</li> </ul>		
<b>3.5.</b>	The vehicle shall be marked on the sides and the front with the inscriptions "POMPIERII", as well as the logos of the "General	YES, the vehicle shall be marked on the sides and the front with the inscriptions "POMPIERII", as well as the logos of the "General	Firefighting Vehicle Sheet	

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	Inspectorate for Emergency Situations." Additionally, the vehicle shall be marked on the sides with the "112" logo.	Inspectorate for Emergency Situations." Additionally, the vehicle shall be marked on the sides with the "112" logo.		
3.6.	The colour of the superstructure shall be red, shade RAL 3000. Car wrapping (stickers or film) is not permitted. The vehicle shall be equipped with reflective plates and strips.	YES, the color of the superstructure is red, RAL 3000. Car wrapping (stickers or film) will not be used. The vehicle is equipped with reflective plates and strips.	Firefighting Vehicle Sheet	
3.7.	The inscriptions and markings will meet the requirements provided by the Government Decision no. 500/2018 <sup>1</sup> . The exact text of the inscriptions (the name and number of the fire brigade, the type of the fire engine etc.) will be provided by the beneficiary (GIES) before the contract signing.	Yes, the inscriptions and markings will meet the requirements provided by the Government Decision no. 500/2018 <sup>1</sup> . The exact text of the inscriptions (the name and number of the fire brigade, the type of the fire engine etc.) will be provided by the beneficiary (GIES) before the contract signing.		
3.8.	The vehicle shall be equipped with size lamps with flexible rubber arms, mounted at the rear of the chassis.	YES, the vehicle is equipped with size lamps with flexible rubber arms, mounted at the rear of the chassis.	Firefighting Vehicle Sheet	
3.9.	The vehicle and its components, including the technology, machinery, and equipment with which it is equipped, shall be brand new and shall not be refurbished and/or remanufactured.	Yes, the vehicle and its components, including the technology, machinery, and equipment with which it is equipped, are brand new and are not be refurbished and/or remanufactured.		
3.10.	<p>The list of standards relevant for the requested vehicle, configuration and equipment:</p> <p>3.10.1. EN 1846-1:2020 – Firefighting and rescue service vehicles – Part 1: Nomenclature and designation</p> <p>3.10.2. EN 1846-2:2020 – Firefighting and rescue service vehicles – Part 2: Common requirements – Safety and performance</p> <p>3.10.3. EN 1846-3:2020 – Firefighting and rescue service vehicles – Part 3: Permanently installed equipment – Safety and performance</p> <p>3.10.4. EN 12769:2000 – Firefighting and rescue service vehicles – Resistance to fire</p> <p>3.10.5. EN 14600:2005 – Firefighting and rescue service vehicles and equipment – Components for electrical and electronic installations</p> <p>3.10.6. EN 1028-1:2002 – Fire-fighting pumps – Fire-fighting centrifugal pumps with priming devices – Part 1: Classification – General and safety requirements</p>	<p>The list of standards relevant for the requested vehicle, configuration and equipment:</p> <p>3.10.1. EN 1846-1:2020 – Firefighting and rescue service vehicles – Part 1: Nomenclature and designation</p> <p>3.10.2. EN 1846-2:2020 – Firefighting and rescue service vehicles – Part 2: Common requirements – Safety and performance</p> <p>3.10.3. EN 1846-3:2020 – Firefighting and rescue service vehicles – Part 3: Permanently installed equipment – Safety and performance</p> <p>3.10.4. EN 12769:2000 – Firefighting and rescue service vehicles – Resistance to fire</p> <p>3.10.5. EN 14600:2005 – Firefighting and rescue service vehicles and equipment – Components for electrical and electronic installations</p> <p>3.10.6. EN 1028-1:2002 – Fire-fighting pumps – Fire-fighting centrifugal pumps with priming devices – Part 1: Classification – General and safety requirements</p>		

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	<p>3.10.7. EN 1028-2:2001 – Fire-fighting pumps – Fire-fighting centrifugal pumps with priming devices – Part 2: Verification of general and safety requirements</p> <p>3.10.8. UNECE Regulation No. 29 – Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants of the cab of a commercial vehicle</p> <p>3.10.9. EN 137 – Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with full face mask – Requirements, testing, marking</p> <p>3.10.10. EN 14540 – Fire-fighting hoses – non-percolating lay flat hoses for fixed systems</p> <p>3.10.11. EN 694 – Fire-fighting hoses – Semi-rigid hoses for fixed systems</p> <p>3.10.12. EN 15182 – Hand-held branch pipes for fire service use – Part 1 to 4 (includes general requirements, selectable flow rate, etc.)</p> <p>3.10.13. EN 15767 - Portable equipment for projecting extinguishing agents supplied by firefighting pumps</p> <p>3.10.14. EN 16712 – Foam equipment for fire service use – Includes induction, mixing and application systems</p> <p>3.10.15. EN 13204 – Rescue equipment – Hydraulic rescue tools – Safety requirements and test methods</p> <p>3.10.16. EN 13731 – Rescue equipment – Safety and performance requirements for power operated spreaders and cutters used in vehicle extrication</p> <p>3.10.17. ECE Regulation No. 65 – Uniform provisions concerning the approval of special warning lamps for motor vehicles</p> <p>3.10.18. EN 60309 – Plugs, socket-outlets and couplers for industrial purposes (used in emergency vehicles for electrical connections).</p>	<p>3.10.7. EN 1028-2:2001 – Fire-fighting pumps – Fire-fighting centrifugal pumps with priming devices – Part 2: Verification of general and safety requirements</p> <p>3.10.8. UNECE Regulation No. 29 – Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants of the cab of a commercial vehicle</p> <p>3.10.9. EN 137 – Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with full face mask – Requirements, testing, marking</p> <p>3.10.10. EN 14540 – Fire-fighting hoses – non-percolating lay flat hoses for fixed systems</p> <p>3.10.11. EN 694 – Fire-fighting hoses – Semi-rigid hoses for fixed systems</p> <p>3.10.12. EN 15182 – Hand-held branch pipes for fire service use – Part 1 to 4 (includes general requirements, selectable flow rate, etc.)</p> <p>3.10.13. EN 15767 - Portable equipment for projecting extinguishing agents supplied by firefighting pumps</p> <p>3.10.14. EN 16712 – Foam equipment for fire service use – Includes induction, mixing and application systems</p> <p>3.10.15. EN 13204 – Rescue equipment – Hydraulic rescue tools – Safety requirements and test methods</p> <p>3.10.16. EN 13731 – Rescue equipment – Safety and performance requirements for power operated spreaders and cutters used in vehicle extrication</p> <p>3.10.17. ECE Regulation No. 65 – Uniform provisions concerning the approval of special warning lamps for motor vehicles</p> <p>3.10.18. EN 60309 – Plugs, socket-outlets and couplers for industrial purposes (used in emergency vehicles for electrical connections).</p>		
<b>3.11.</b>	The annexes no.1 – 7 are an integral part of this Technical Specification. For all specifications and products listed in the	YES, the Annexes no. 1 – 7 are an integral part of this Technical Specification. For all specifications and products listed in the		

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	annexes, certificates of conformity issued by the competent authorities, as well as declarations of conformity under one's own responsibility and/or test reports, shall be presented as part of the submitted offer, as applicable.	annexes, certificates of conformity issued by the competent authorities, as well as declarations of conformity under one's own responsibility and/or test reports, are presented as part of the submitted offer, as applicable.		
3.12.	The list of manuals, schemes (electrical, pneumatic, hydraulic), technical inspection list (maintenance), list of spare parts (part number).	YES, the list of manuals, schemes (electrical, pneumatic, hydraulic), technical inspection list (maintenance), list of spare parts (part number) will be provided at delivery of the vehicle.		
3.13.	The bidder will provide the necessary training to the beneficiary personnel for operation and maintenance of the vehicle and all components. The training plan will be part of the offer. The bidder will also provide at least 2 monitorization visits to the manufacturing facility. The bidder will also disseminate the training materials (hard copy and electronic version (PDF or PPT format) during the training sessions.	YES, the necessary training will be provided to the beneficiary personnel for operation and maintenance of the vehicle and all components. The training plan will be part of the offer.  YES, the bidder provides 2 monitorization visits to the manufacturing facility. The bidder will also disseminate the training materials (hard copy and electronic version (PDF or PPT format) during the training sessions.		
4.	<b>RECEPTION</b>	<b>RECEPTION</b>		
4.1.	The delivery of the vehicle shall be carried out no later than 12 April 2027 to the premises of the Regional Directorate for Emergency Situations of UTA Găgăuzia, General Inspectorate for Emergency Situations, located at 7 Novaia Street, Comrat municipality.	YES, the delivery of the vehicle shall be carried out no later than <b>12 April 2027</b> to the premises of the Regional Directorate for Emergency Situations of UTA Găgăuzia, General Inspectorate for Emergency Situations, located at 7 Novaia Street, Comrat municipality.		
4.2.	After the delivery of the vehicle and its onboard equipment, these shall undergo testing. The testing period shall last 7 days. Upon completion of the testing period, an acceptance certificate shall be signed in accordance with the legislation of the Republic of Moldova in force. Once the acceptance certificate is issued, the warranty period shall commence, during which any defects shall be reported, and the defective equipment (parts/equipment) shall be replaced free of charge.	YES, after the delivery of the vehicle and its onboard equipment, these shall undergo testing. The testing period shall last 7 days. Upon completion of the testing period, an acceptance certificate shall be signed in accordance with the legislation of the Republic of Moldova in force. Once the acceptance certificate is issued, the warranty period shall commence, during which any defects shall be reported, and the defective equipment (parts/equipment) shall be replaced free of charge.		

Date: 28/01/2026

**AUTOFORTA SRL**

**Victor MICULET,**  
General Manager