



Proiectul „Enhancing the intervention skills of professional firefighters (EnIS)”

Contract de grant: ROMD00073 / Interreg VI-A NEXT
România–Republica Moldova

Direcția regională situații excepționale UTA Găgăuzia a Inspectoratului General pentru Situații de Urgență al MIA RM
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„APPROVE”

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TECHNICAL SPECIFICATION ”Small special vehicle for primary intervention”

1. DESTINATION

1.1. The Small special vehicles for primary intervention are designed for the rapid delivery of rescue personnel and firefighters from the fire stations of subordinate territories for management and intervention in order to prevent/liquidate the consequences of emergencies of national and international scale, including preventive measures.

1.2. The vehicle shall be suitable for an extremely intensive operating regime, traveling in hard-to-reach areas with frequent accelerations and decelerations, including on roads with very steep slopes and inclines.

2. GENERAL REQUIREMENTS

2.1. All offered vehicles shall be brand new, manufacture of at least year 2026 and unused.

2.2. The vehicles shall be off-road type, with 4x4 all-wheel drive, robust, built on a high-strength, reinforced chassis suitable for heavy-duty use and off-road conditions, capable of transporting both passengers and the necessary equipment for instrumental disaster risk identification, while ensuring full control during travel on rough terrain.

2.3. The imposed requirements shall be considered as minimum and mandatory. Any offer that does not meet the mandatory minimum requirements specified in the Specifications Document shall be considered non-compliant and shall be rejected.

2.4. Any modification to the offer shall be taken into consideration only if it meets at least the mandatory minimum requirements specified in the technical specifications document or presents a higher quality and performance level.

In this regard, the Bidder is required to indicate within the offer which elements demonstrate superiority and to provide supporting documents proving the superior quality level compared to the requirements specified in the technical specifications document.

The Purchaser reserves the right to deny approval for modifying the offer if, after analyzing the submitted documents, it is determined that the proposed vehicle does not meet the mandatory minimum requirements specified in the technical specifications document.

3. TECHNICAL CHARACTERISTICS

3.1. Bodywork:

3.1.1. The vehicle shall be an SUV with 4 doors and 5 seats (all seats shall be equipped with integrated 3-point seat belts);

3.1.2. Multifunction steering wheel shall be on the left side, adjustable in height and tilt;

3.1.3. There shall be electrically operated windows;

3.1.4. Two interior sun visors shall be mounted at the top of the windshield;

3.1.5. There shall be interior mirror according to the standard equipment;

3.1.6. Driver seat shall be adjustable in height, forward, backward, and reclining backrest/ front passenger seat shall be adjustable in forward, backward, and reclining backrest;

3.1.7. Rear bench seat shall be with 3 places;

- 3.1.8. Rearview mirror system shall be with defrosting and electric adjustment;
- 3.1.9. Cabin climate control system shall be with heating and automatic air conditioning;
- 3.1.10. Radio shall be with multifunction display and USB, Bluetooth connections, integrated into the vehicle's dashboard, with at least four speakers;
- 3.1.11. Rear parking camera system shall activate automatically when reversing and includes rear parking sensors;
- 3.1.12. Airbags shall be for at least for the front seats and curtain airbags for the front and rear;
- 3.1.13. There shall be computerized dashboard;
- 3.1.14. The cabin shall be properly illuminated with LED/Halogen technology lamps and reading lights for both the driver and the crew;
- 3.1.15. There shall be centralized locking system with at least two car keys with remote controls.
- 3.1.16. Vehicles shall have a standard factory paint finish in the grey color;

3.2. Dimensions and Weights:

- 3.2.1. Length: minimum 4300 mm.;
- 3.2.2. Width: maximum 1850 mm (without mirrors).;
- 3.2.3. Height: maximum 1700 mm.;
- 3.2.4. Ground clearance: minimum 205 mm.;
- 3.2.5. Vehicle weight (min./max.) – 1400/1550 kg;
- 3.2.6. Maximum authorized total weight – up to 2000 kg;
- 3.2.7. Payload capacity, including a 75 kg driver – minimum 450 kg;
- 3.2.8. Maximum towable mass – minimum 1500 kg;
- 3.2.9. Trunk volume – minimum 300 liters (with folding seats – minimum 1300).

3.3. Engine and Auxiliary Systems:

- 3.3.1. Inline engine with a minimum power of 140-155 HP;
- 3.3.2. Engine displacement: minimum 1100 cm³ – maximum 2000 cm³;
- 3.3.3. Fuel type gasoline + GPL (propane gas) with a hybrid assist system (mild hybrid or equivalent); - for increased autonomy
- 3.3.4. Operating principle: turbo direct injection or naturally aspirated indirect injection;
- 3.3.5. Fuel tank capacity – minimum 45 liters;
- 3.3.6. Emission standard: according to the EU regulations in force on the date of delivery.

3.4. Transmission:

- 3.4.1. The vehicle shall be equipped with automatic gearbox, including versions with Mild Hybrid technology;
- 3.4.2. The vehicle shall be equipped with protective skid plates for the engine, gearbox, and fuel tank (or other critical underbody components) (as per the manufacturer's specifications or as an optional off-road package);
- 3.4.3. Traction control system (ASR or equivalent);
- 3.4.4. Steering system – electrically assisted;

3.5. Braking System:

- 3.5.1. There shall be anti-lock braking system (ABS or equivalent);
- 3.5.2. There shall be ventilated disc brakes on the front axle and drum or disc brakes on the rear axle;
- 3.5.3. There shall be manual or electrically assisted parking brake;
- 3.5.4. There shall be hill-start assist system;

3.6. Wheels:

- 3.6.1. Single wheels on both the front and rear axles;
- 3.6.2. The vehicle shall be equipped with summer tires mounted on lightweight alloy rims, the minimum tire size shall be 225/55/R18.
- 3.6.3. Spare wheel of the same type and size as those mounted on the vehicle.

3.7. Suspension:

- 3.7.1. Front suspension: Independent with telescopic shock absorbers, anti-roll bar/transverse stabilizer;
- 3.7.2. Rear suspension: torsion beam with telescopic shock absorbers, high strength, for off-road use.

3.8. Additional Equipment:

- 3.8.1. Acoustic and Optical Warning System;
- 3.8.2. A light bar, 1200-1250 mm. in length, 350-400 mm in width 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:
 - 3.8.3. The design consists of left and right optical modules (beacons), each containing 18 LEDs with lenses. An acoustic module is centrally located.
 - 3.8.4. 3.8.2.2. Total number of LEDs — 36. Power per LED — 3W, total optical power — 162W. Each LED is equipped with a directional reflector.
 - 3.8.5. Additionally, the system includes separate left and right LED lights, each containing 3 LEDs with a power of 9W, equipped with lenses.

3.8.6. The system has 7 lighting modes selectable by the operator. Control is via a single unit with mode indication.

3.8.7. The LEDs are equipped with lenses and mounted on an aluminum radiator.

3.8.8. The bar has corrosion and water-resistant protection. 360-degree lighting, light sensor, traffic routing.

3.8.9. The acoustic module includes a siren, located in the center of the bar, with the following characteristics:

3.8.10. Acoustic signal generator with minimum 5 tone options.

3.8.11. Signal power 90-110W, sound pressure level — 116-125 dB. Signal frequency — up to 300-8000 Hz. Signal cycle duration — maximum 7 sec.

3.8.12. There is an external audio input with capability for voice message transmission via a microphone. The siren is controlled from a single unit with a microphone.

3.8.13. Presence of a backup power line.

3.9. Lighting System:

3.9.1. Headlights with electric or manual adjustment;

3.9.2. Automatic running lights;

3.9.3. Daytime running lights;

3.9.4. Clearance lights;

3.9.5. Front and rear fog lights;

3.9.6. Reverse lights;

3.9.7. Light sensor;

3.9.8. Vehicles must be equipped with LED lighting, except for the high beam, which may be halogen.

3.10. Specific Accessories for the Vehicle:

The following accessories and equipment shall be supplied and delivered as part of the vehicle package, either as factory-fitted options or as supplementary equipment installed/provided by the Supplier:

3.10.1. First aid kit;

3.10.2. Tool kit and specific accessories for the chassis;

3.10.3. Jack capable of replacing a wheel;

3.10.4. Reflective warning triangles: at least 2 pieces;

3.10.5. Spare wheel (rim + tire).

3.10.6. P6 type fire extinguisher;

3.10.7. Rubber floor mats for each seat;

3.10.8. Reflective vests: at least 2 pieces;

3.10.9. A tire inflation compressor with a power of at least 200W, a pressure of at least 5.5 bar, a 12V power supply with a reinforced cable, a built-in analog or digital pressure gauge, with an air bleed function.

3.10.10. Towing cable, polyester fiber strap type, with a minimum load capacity of 1500 kg. Cable length – at least 5 meters.

4. FINAL REQUIREMENTS

4.1. Warranty:

4.1.1. Considering the special purpose of the vehicles and the operating conditions, the Bidder shall guarantee a minimum of 100,000 km for all key powertrain components (including the hybrid system and transmission) under the specified operating conditions.

4.1.2. Additionally, the following warranties shall be provided:

- Minimum 3 years for the resistance to corrosion of the bodywork;
- Minimum 3 years for the signage;
- Minimum 100,000 km or 3 years for the hybrid system components (battery, electric motor, power electronics).
- For vehicles equipped with a manual gearbox: Minimum 100,000 km for all clutch components. For vehicles with an automatic gearbox: Minimum 100,000 km or 3 years for the automatic transmission unit.

4.1.3. Considering the special purpose of the vehicles and the operating conditions (including both paved and unpaved public roads), the Bidder shall guarantee a minimum of 100,000 km for all clutch components under the specified operating conditions. If a malfunction occurs before reaching 100,000 km, the Purchaser shall request the replacement of the clutch under warranty if it is mechanical.

4.1.4. The warranty certificate, written in simple and understandable terms, shall specify the product identification details, warranty period, the average duration of use for which product compliance is ensured, and the methods of warranty provision—maintenance, repair, replacement—and the timeline for completion (according to the specifications in the tender). It should also include the name and address of the seller and the specialized service unit.

4.1.5. The Supplier is required to provide permanent technical assistance services, with a response time to requests of no more than 24 hours.

4.2. Delivery, Reception, and Marking:

4.2.1. The vehicles shall be delivered and received at the headquarters no later than 11 Mai 2026 to the premises of official dealer in Moldova or the Regional department of emergency situations ATU Gagauzia, located at 7 Novaia Street, Comrat, Moldova.

4.2.2. The vehicles shall be brand new, unused, and without any previous owners.

4.2.3. The Supplier shall deliver the vehicles in a manner that prevents any damage or deterioration during transportation to the designated location. The transportation and all associated costs shall be the sole responsibility of the Bidder.

4.2.4. The Supplier is responsible for ensuring timely delivery of the vehicles, taking into account any potential challenges, and shall not invoke any reason for delay or additional costs.

4.2.5. The delivered vehicles shall comply with the provisions of the Government of the Republic of Moldova Decision No. 357/2009 on the approval of the Road Traffic Regulations, with subsequent amendments and additions.

4.3. Maintenance During the Warranty Period:

4.3.1. During the warranty period, all technical inspections of the vehicles, as per the service plan developed by the manufacturer of the vehicle, shall be detailed and carried out in the Republic of Moldova. The costs for these technical inspections shall be borne by the Purchaser.

4.3.2. Bidders shall include in their offer the service plans, including estimated costs for the chassis and other onboard equipment, as developed by their respective manufacturers. They shall also provide a defect remediation procedure for the warranty period in accordance with the intended use of the vehicles, covering a minimum of 3 years from the date of acceptance.

4.3.3. During the warranty period, any product malfunction shall be resolved by the Supplier within the following deadlines:

- For the vehicle chassis, installations, and special onboard equipment: no more than 10 working days from the date of written notification by the owner/beneficiary/end user. If the necessary parts for repairs are imported by the service provider, the repair timeframes shall be agreed upon with the Supplier's representatives;

- For optical-acoustic warning systems: no more than 30 working days from the date of written notification by the owner/beneficiary/end user. If the necessary parts for repairs are imported by the service provider, the repair timeframes shall be agreed upon with the Supplier's representatives.

- Procedure for Defect Remediation During the Warranty Period:

4.3.4. Defective equipment shall be handed over to the Contractor's representatives based on official transfer documents, the format of which shall be agreed upon after contract signing.

4.3.5. Repaired/replaced equipment returned to the Purchaser shall be functionally tested, and relevant reception documents shall be signed. The repaired equipment shall be accompanied by a mandatory repair report detailing the identified defect(s), a detailed description of the issue(s), and the service actions taken to resolve them.

4.3.6. If the Supplier fails to meet the deadlines mentioned above for repairing a vehicle or its onboard equipment during the warranty period, the Purchaser has the right, after sending prior notification, to calculate penalties for each day of delay between the expiration of the deadline and the fulfillment of the obligation, in accordance with legal provisions.

4.3.7. The product warranty (for replaced or repaired items) shall be extended by the time elapsed from the date the Supplier or its representative in the Republic of Moldova was notified of the defect until the date the product was returned to the Purchaser in good working condition.

4.4. Technical Support:

4.4.1. The maintenance of the vehicles shall be ensured by the Supplier, either directly or through subcontracting/association, as applicable, via the official distributor network of the vehicle manufacturer or other authorized service units in the Republic of Moldova. These units shall be certified by the vehicle manufacturer or its authorized representative. At the time of submitting the offer, the Supplier shall provide a list of service units, including contact details that shall be responsible for maintenance during the warranty period.

4.4.2. The service units shall be authorized and operational at the time of submitting the offer. The Supplier shall have at least one (1) authorized service center at the national level. If the defect remediation during the warranty period requires transporting the vehicle to another country other than Moldova, all associated costs (transport, insurance, per diem, etc.) shall be covered by the Supplier.

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