PRIORITET

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Technical proposal of PRIORITET LLC
First-response fire and rescue vehicle APP on the Sollers ST9 (4x4) chassis



Approximate appearance. The image is for illustration purposes only.

General information

The first-response fire and rescue vehicle APP on the Sollers ST9 (4x4) chassis (hereinafter, APP) is a light-class main fire vehicle designed:

- to deliver personnel, fire-fighting equipment and other equipment (a pump unit, tanks for liquid extinguishing agents) to the scene of a fire (accident);

- to carry out fire-fighting operations at the initial stage of a fire and priority emergency rescue operations.

Main characteristics of the first-response vehicle when performing its intended tasks:

- constant readiness to perform its tasks;
- ability to travel and deploy for operations within a limited time regardless of terrain, time of day, season and weather;
- high manoeuvrability and cross-country capability on category 1, 2 and 3 roads and off-road;
- continuous radio communication on the assigned frequencies;
- special light and audible signalling of the vehicle when driving on roads and over terrain and during rescue operations.

No.	Characteristics
1.	**Technical specifications of the base chassis:**
	Vehicle model – Sollers ST9 Wheel arrangement – 4x4 Overall dimensions, mm: 5550 × 1965 × 2100 Engine – 2.0 petrol, 224 hp Gearbox – 8AT (8-speed automatic) Wheels – 265/60R18 Surround-view cameras – 360° Exterior side mirrors – heated, power-adjustable Off-road steel side steps Driver's seat – power-adjustable (6-way) Passenger seat – power-adjustable (4-way) Multimedia – 10.4-inch touchscreen display, multifunction steering wheel Additional equipment – tow hitch (towing device) Dashcam
	Name (vehicle type) – PASSENGER CAR
	Number of seats – 3
	Three-point seat belts for four seating positions (driver and three passengers)
	Radar-type parking sensors
	Vehicle winch
	Heavy-duty front and rear bumpers
	Rear side window tinting
2.	**Technical specifications of the fire superstructure:**
	The vehicle is fitted with a body superstructure (box body).
	All-metal dropside platform with a hinged tailgate, fitted with an aluminium box body with three hinged doors, equipped with a set of emergency rescue tools and pull-out shelves holding the fire-fighting equipment.
	Box body with three hinged doors: two at the sides and one at the rear; the pull-out platform frame is made of assembled aluminium sections.
	The electrical equipment of the APP provides: - special audible signals; - crew cab lighting; - compartment lighting; - APP door-open warning.
	Additional switches installed in the APP cab: - lighting on/off; - rear floodlight on/off; - public address system (SGU) on/off; - open-door warning indicators.
	Equipment set: - Malakhit drone (copter); - thermal imaging camera; additional set of batteries.
	Installation, in place of the front passenger seat, of a platform with a screen (control panel) displaying the feed from the UAV camera. - the platform surface (tabletop) slides out; compartments for documents, the UAV remote controller and radios.
	The platform shall have outlets for radio and torch chargers.

No.	Characteristics
	Plastic fairing on the chassis roof with integrated lights
	UAV landing pad on the box body roof
	Communication antenna on the box body roof
	The controls of the special audible and light warning signals are located within easy reach of the driver or the squad leader for emergency activation.
	The mountings for the carried equipment and gear are made of strong, wear-resistant materials that allow the equipment to be used quickly, without additional tools or effort, when responding to emergencies. The mounting of the equipment and gear prevents it from moving on its own while the vehicle is in motion.

Fire-fighting equipment kit:

1.	Vehicle first aid kit	1
2.	Chainsaw	1
3.	Tow rope	1
4.	Fire rescue rope VPS-30	1
5.	Dashcam with GPS	1
6.	Fire-extinguishing aerosol generator (balls)	3
7.	Portable electric generator	1
8.	Disc cutter driven by an internal combustion engine	1
9.	Spare wheel	1
10.	Warning triangle	1
11.	Tools and accessories as per the vehicle manufacturer’s list, set	1
12.	Water canister, 5 l	1
13.	Fuel canister, 10 l	1
14.	Cable reel, 40 m	1
15.	Vehicle stabilisation kit	1
16.	Sharp-edge protection kit	1
17.	Blacksmith’s sledgehammer, 5 kg	1
18.	Multifunctional manual rescue tool IRAS-M	1
19.	Folding/telescopic lighting mast on the box body roof	1
20.	Self-contained lighting mast with batteries	1
21.	GASI kit (hydraulic rescue tools): - hydraulic power unit; - universal hydraulic shears; - hydraulic cutters; - hydraulic spreader.	1
22.	Powder fire extinguisher OP-2	1
23.	Inventory of fire-fighting equipment	1
24.	Pneumatic jacks (lifting bags), set	1
25.	Vehicle-mounted radio, 137–174 MHz, 50 W, GPS/GLONASS	1
26.	Portable fire-extinguishing system VARIO 9 Carbon	1
27.	Public address system (SGU)	1
28.	Navigation system with a map of Russia	1
29.	Document bag	1
30.	Assault axe	1

31.	LED searchlight	1
32.	Fire-fighter’s group torch with charger	2
33.	Blue flashing beacon	1