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

**Contract title: Supply of Supply of specialized vehicles p 1 /18**

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**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 - the contractor's 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 onits proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **LOT 1 Fire fighting vehicle 1 piece** |  |  |  |
|  | Vehicle basis - chassis Engine Engine power: minimum 180 kW,  Peak torque: minimum 1000 Nm Euro class engine: minimum EURO 6, SCR Fuel: Euro-diesel Fuel filter heater Engine cooling system: liquid Transmission  Manual, 6 synchronized gears + 1 reverse Driving formula 4x4 Wheels Single - front and single rear with two pads for the wheels, Tool for changing wheels and tires refilling hose Pneumatics For road and off-road conditions (5 pieces)  Cab Short, daily, 1 +2 seat |  |  |  |
|  | Digital tachometer  Electric glass lifters Tinted glass Trip computer Cruise control Tipper cab Suspension: Front and rear parabolic springs, telescopic hydraulic shock absorbers Braking system: ABS, Steering system: Servo, adjustable per height and gradient  Chassis dimensions: Length: minimum 6000 mm Width: maximum 2500 mm, without rearview mirror Height: maximum 3200 mm The maximum permissible total weight: 15000 kg Minimum length of vehicle (chassis with vehicle bodies): 6200 mm |  |  |  |
|  | Vehicle bodies/upgrades Water tank: √ Capacity: min. 3000 liter √ Material: stainless steel √ Reliance: via elastic supports on the sub-frame √ Construction: with anti-wave divisions, with hatch for revision with a lid diameter of minimum 500 mm and an overflow system with a valve for pressure and vacuum; √ Equipment: electric water level sensor; connection for the hydrant charging with stable and blind coupling and the ball-shape valve; ports for connection to the pump and the tank discharge Foam tank: √Capacity: min. 300 liter √Material: stainless steel √Equipment: filling hatch; valve for pressure and vacuum; electric encoder of foam level; ports for connecting to a system for mixing and emptying tank Firefighting pump: |  |  |  |
|  | Type: combined firefighting pump with the medium pressure level (I 0 bar) and the high pressure level (40 bar) Capacity: min. 3000 I/min at 10 bar and 400 I/min at 40 bar Standard: the pump must be in compliance with standards for firefighting pumps The pump must provide work with medium pressure separately, with high pressure separately and simultaneously with both medium and high pressure; the pump must be equipped with a vacuum device to suck up water from external sources |  |  |  |
|  | to a depth of 8m  Drive: via engine pto: √Position: in the rear storage of the body/upgrade √Mixing system: the pump must be equipped with a pre-mixer for dispensing the foam, from 0-6%; with possiblity to withdraw foam from the outer dispenser. Control panel: Commands - minimum requirements:  water from the tank into the pump; √tank filling - circular; turning on high pressure hose reel;  turning on medium pressure hose reel Instruments - minimum requirements: √Mano-vacuum-meter for pressure at the pump inlet; √Manometer for medium pressure; √Manometer for high pressure; √Electric water level indicator in the tank; √Electric foam level indicator in the tank; √RPM meter pump with counter of operating hours; |  |  |  |
|  | √Switch for adding and subtracting the gas (hand-held gas); √STOP switch Storage boxes: √The supporting structure of upgrades must be made of aluminium extrusion profiles. √The interior space is coated with anodized aluminum and/or stainless ribbed tin. √The roof the upgrade is coated with anodized aluminum and/or stainless ribbed non-slipping tin, with the built-in supporters for the equipment that will be located on the roof of the vehicle and the low, protective fence. √The sides and back box are closed by aluminum rolling doors with rubber gaskets, which prevent the penetration of water and dust. Aluminum rolling door are closed by external locking and are completely protected against atmospheric influences.  √The storage boxes must be equipped with installed carriers, holders and compartments for all the required equipment. At the back of the upgrade, on the right, there should be built in bending ladders ladder for climbing onto the roof of the vehicle. |  |  |  |
|  | Installation of water and foam: √Material: The installation must be made of steel pipes protected by hot galvanizing. All small elements of the installation of water and foam (elbows, branches, connectors) must be made of stainless materials. √Connectors: Intake from the tank to the throttle valve and flexible connection; connection for the withdrawal of water out of the vehicle, with coupling Ø110mm, two discharge ports on the pressure valves and fittings Ø75mm on both sides of the vehicle; pressure pipeline for secondary hose reels of medium and high  pressure, pressure pipeline of the water or foam jetter.  √Vehicle auto-protection system: allows the maximum safe access to the fire and must consists of a nozzle for auto-protection of the wheels and windscreen and pipeline with navigation valves. Monitor water/foam: √Capacity: min. 1200 I/min at 8 bars |  |  |  |
|  | √Jet range: water - min. 50m, foam - min. 35 m √Handling: manual √Rotation: horizontal - 360°, vertical - from - 15 to +75° √Jet form: full and dispersed √Other: two brakes to ensure the horizontal and vertical position; √Manometer √Fast-intervention hose reel √Medium pressure hose reel: equipped with a minimum 25 m of incompressible rubber hose, inside diameter Ø32 mm and the nozzle for water or foam, capacity minimum 200 I / min at 8 bars - with adjustable spray pattern (full and dispersed) √High-pressure capstan: equipped with a minimum 60m of incompressible rubber hose, inside diameter Ø19 mm and the nozzle for water or foam, capacity minimum 200 I/ min at 40 bars - with adjustable spray pattern (full and dispersed) and extension for foam that is placed on the nozzle enabling |  |  |  |
|  | extinguishing by foam. √Winding: winding of capstan should be by electrical driven with the possibility for manual winding. Other: capstans must be equipped with a security brake and the hose router. Auto-pulling capstan: √Pull power: min. 6800 kg on a single cable √Drive: electric motor, 24V √Command: wireless radio control √Cable length: min. 28 m Cable diameter: min. 10 mm √Brake: automatic, direct in drum, with limiter Gear: three-stage planetary Light signaling: √Voltage: 24V √Operating: from the cab √Roof signaling: integrated device - console with LED blinkers flashing blue, protected from mechanical damaging. √Blinkers: two LED blinkers flashing blue on the front side of the vehicle; |  |  |  |
|  | √four LED blinkers flashing blue on the back side of the upgrade; voltage √24V; operating from the cab √Outside lights: two LED spotlights on the outer sides of the upgrade roof -on the left and on the right to light the area around the vehicle; √Inside lights: boxes for equipment and pump area must be iluminated Sound signals: √Howling siren and sound system (amplifier 100W) with a microphone in the cab. Color: √Vehicle: fire-red RAL3000 or equivalent, √Chassis: black √Fenders: white Equipment: Pressure hoses Ø 52, min. 15 m, 10 pieces Pressure hoses Ø 75, min. 15 m, 4 pieces Universal keys, 3 pieces Key ~~to~~ for underground hydrant, 1 piece Hydrant extension, 1 piece Intake hoses Ø 110, L=1,6m, 4 pieces |  |  |  |
|  | Intake basket Ø 110, 1 piece Ropes for tying the intake port, 2 pieces Divider B/CBC, 1 piece Collector A/2B, 1 piece Backpack, 10 pieces Fire axes, 2 pieces Pick, 1 piece Shovel, 1 piece Extinguishing broom, 10 pieces Handsaw, 1 piece Chainsaw, 1 piece Universal nozzles Ø 52, 3 pieces Universal nozzles Ø 75, 2 pieces Nozzle for medium foam Ø 52, 1 piece Nozzle for heavy foam Ø 52, 1 piece Portable fire extinguisher S-9, 3 pieces |  |  |  |
| **II** | **LOT 2 ATV Rescue vehicle 2 pieces** |  |  |  |
|  | ENGINE & DRIVETRAIN Active Descent Control Standard √Cooling Liquid |  |  |  |
|  | Drive System Type:  Selectable 4WD / 6WD with Visco-Lok‡ QE auto-locking front differential √Engine Braking System Standard √Fuel System Electronic Fuel Injection √Transmission: CVT, P / R / N / H / Extra low L, √Cylinders-Displacement (cm3) min 600 cm3 √Engine Type V-twin  √Engine power: min 40kW SUSPENSION √Front \_ Suspension Arched double A-arm with front sway bar, 23.3 cm travel √Rear Suspension Double Torsional Trailing arm Independent (TTI2) with quick-release  sway bar, 25.1 cm travel BRAKES √Front/Rear Brakes: Dual min 214 mm ventilated disc brakes with hydraulic twin-piston calipers TIRES/WHEELS √Front Tires 26 x 8 x 12 in. (66 x 20.3 x 30.5 cm) √Rear Tires 26 x 10 x 12 in. (66 x 25.4 x 30.5 cm) √Rims: 12“. cast-aluminum |  |  |  |
|  | DIMENSIONS √Storage Capacity Dual-level cargo box with sidewalls  and tailgate Rear: 70 L √Front/Rear Rack 90 lb ( min 40.8 kg)/800 lb (min 300 kg) √Fuel Capacity (Litres) min 20 lt √Ground Clearance min 27cm √Overall Vehicle Size (L x W x H) (317 x 122 x 141 cm) √Person Capacity 1 √Seat Height max 37" (94 cm) √Wheelbase min 84" (213.4 cm) √Estimated Dry Weight max 600 kg FEATURES Color  √Sage Green √Electronic √Power Steering: Tri-Mode Dynamic Power Steering (DPS) Standard √Hitch Towing √Rating  Hitch Type Standard/2" Receiver  √Multifunction Digital: Speedometer, tachometer, odometer, trip &hour meters, fuel, gear |  |  |  |
|  | position, 4 x 4 indicator,diagnostics, clock  √Towing Capacity 907 kg trailer with brakes and  674 kg trailer without brakes |  |  |  |
| **III** | **LOT 3 Off road vehicle 1 piece** |  |  |  |
|  | Engine, transmission 1, 7 1 8v, 5MT, 83 hp Body Wheel arrangement/traction wheels permanent 4 WD (AWD) Engine location Front longitudinal Body type/number of doors sw I 3 seats 4 Length / width / height, mm 3640 / 1680 / 1640 Wheelbase, mm 2200 Front/rear track, mm 1440 / 1420 Road clearance, mm 205 Rear trunk capacity in passenger/commercial vehicle, 1 265 / 585 Engine Engine type gasoline F.eed system Port electronically controlled fuel injection Cylinder number and arrangement straight-4 Engine displacement; max 1700cm3 Maximum brake power, hp / kW / r.p.m. 61 (83) I 5000 Peak torque, Nm / r.p.m. 129 / 4000 Gas Premium gasoline Dynamic characteristics Maximum speed, km/h |  |  |  |
|  | Acceleration time 0-100 km/h, sec 17,0 Fuel consumption Urban cycle, 1/l00km 12,1 Country cycle, 1/100km 8,3 Combined cycle, 1/100km 9,9 Weight Unladen weight, kg 1285 Gross weight, kg 1610 Admissible fully loaded mass of a towed unbraked / braked trailer, kg 300 I 600 (?) Fuel tank capacity, 4 2 Transmission No of gears: 5MT Final drive gear ratio 3,9 Suspension Front Independent on wishbone, spring-actuated, with oil-actuated telescopic shock absorbers and anti-roll bar Back Conventional, lever-type, spring-actuated, with double-acting shock absorbers |  |  |  |
| **IV** | **LOT 4 Articulated Boom Lift 1 piece** |  |  |  |
|  | Working height 15. 77 m  Working Outreach 8,27 m  Up and over height 7.3m  Swing 355 Degrees Non-Continous m  Platform capacity 250 kg  Platform size 0,76xl,83 m  Platform rotator 180 degrees hydraulic  Dimensions:  A. Platform size 0,76xl,83 m  B. B. Overall Width 2,35m  C. Tailswing Zero  D . . Stowed height 2,27m  E. Stowed length 6,58 m  F. Wheelbase 2,36 m  G. Ground Clearance 0,42 m  Jib 1,24m |  |  |  |
|  | Range of Articulation 144 degrees (+76, -69)  Weight 6495 kg  Max ground bearing pressure 4 kg/cm2 .  Drive speed 6,8 km/h  Gradeability 45%  Axle oscilation 10 cm  Turning radius:  Inside 2,06 m  Outside 4, 78 m  Power  Power source Diesel engine Deutz D2.3 L3 Stage IIIA 36.4 kW  Auxiliary power unit 12 V DC  Hydraulic tank capacity 144L  Fuel tank capacity 60,5 L |  |  |  |