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

**Contract title: Procurement of fire protection uniforms, equipment/tools and fire engine (light) with high pressure pump for project FIREGUARD**

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**Publication reference:** **RORS00061–PP2–TD03**

**LOT no.3 - Fire engine (light) with high pressure pump**

**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 on its 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.

**General Requirements**

* All requirements stated and outlined in this document must be regarded as mandatory and the minimum acceptable criteria. All requirements outlined in this document are accompanied by the phrase "or equivalent".
* The tenderer is required to provide the specifications of the offered items in the Technical Offer, including details such as the manufacturer, product type, model, and country of origin. All documentation must be provided in English or Serbian, both in hardcopy and electronic formats.
* The selected contractor is required to provide all necessary documentation for the registration of the completed vehicle in accordance with the relevant legal regulations in the Republic of Serbia. This includes the Certificate from the Authority for determination of Seaworthiness confirming the vehicle examination, as well as the technical inspection registration sheet, which is required for further vehicle registration.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
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| **1** | **Fire engine (light) with high pressure pump, Quantity: 1 Unit** |  |  |  |
|  | Fire truck - a light motorized off-road vehicle for rapid intervention with a high-pressure pump for extinguishing outdoor fires and forest fires, Quality standard SRPS ЕN 1846  **General description:**  The vehicle is intended for the transport of people and equipment in road and off-road conditions in accordance with the applicable legal regulations of the Republic of Serbia, the Regulation on the Classification of Motor and Trailer Vehicles and Technical Requirements for Vehicles in Road Traffic and the Law on Road Traffic Safety.  The vehicle is equipped with a high-pressure fire pump with a water installation and tank, a foam tank and a water and foam extinguishing installation, as well as holders for storing and transporting firefighting equipment (broomsticks, knapsacks, axes, spades, pickaxes, etc.).  Standard: The chassis and superstructure of the vehicle must comply with the SRPS EN 1846 standard.  The compliance of the selected offered chassis with the superstructure solution and the storage of fire-fighting equipment must be provided with the offer in the form of a conceptual solution - a technical drawing of a minimum A3 format with marked dimensions, a detailed specification with the storage of the selected equipment, tanks, high-pressure fire pumps, etc.  The conceptual solution needs to contain all views and cross-sections of the vehicle, the material and method of assembly of the superstructure, the catalogue documentation of the chassis and equipment, aligned with the total load capacity of the offered vehicle.  **Required technical characteristics:**  Vehicle characteristics  - Vehicle make and type: Light 4x4 fire truck  - Drive scheme: four-wheel drive with manual shifting of the drive and gearbox  - Possibility of blocking transmission  - Gearbox type: automatic or manual transmission  - Body type: Double cab (4 doors) with separate cargo area  - Number of seats: Minimum 5  - Safety seat belts: for all seats  - Air condition: manual and/or digital  - Airbags: for the driver and passenger  - Steering wheel position: Steering wheel on the left side, adjustable for height and reach, power steering  - Vehicle colour: red  - Clearance: minimum 230 mm  - Engine displacement: minimum 1800 cm3  - Emission control: EURO 6  - Fuel: Euro-diesel or gasoline  - Tank capacity: minimum 70 l  - Engine power, [kW]: minimum 110 KW  Wheelbase: minimum 3100 mm  - Braking and safety system: minimum ABC  - Parking sensors: front parking sensors, active control of pulling systems, vehicle stability control and uphill assistance  - Tires according to the purpose: for off-road conditions (All terrain - off road) on all four wheels and a spare wheel.  Tools, cranes  - Towing winch: built inside the front bumper  - Radio: Bluetooth, USB  - Protection of the vehicle's chassis (engine compartment and transmission): Mechanical metal protection of the vehicle's chassis (engine compartment and transmission)  - Towbar  THE CHARACTERISTICS OF FIRE SUPERSTRUCTURE  - The material of the superstructure:  Stainless material, modular type, connected to the basic frame-chassis of the vehicle.  - Openings on the superstructure:  At least 2 side openings with shutters and 1 at the back, with full protection from external influences and external locking. All doors have a lock with a key.  - Storage/superstructure space:  Sufficient to house the water pump, water tank, installations and other equipment.  The water pump, water tank, installations and other equipment must be positioned so as to ensure that the stated equipment can be taken out from the storage area - superstructure outside the vehicle.  For all equipment, provide appropriate supports, stands and other means to secure the equipment in the storage areas, namely: two knapsacks (water/foam, volume 25 l), one large axe, one shovel, one spade, one pickaxe, one chainsaw, one hydrant extension B/2C DIN3221, one "B" hose, two "C" hoses, a "T" DIN 3223 wrench, a wrench for an above-ground hydrant DIN 3223, a wrench for an AVC DIN 14822, one Sa9 fire extinguisher for initial fires and one CO2-5.  On the roof of the storage area - superstructure, install carriers in the colour of the vehicle/superstructure to transfer 4 broomsticks.  During the construction, consult with the Contracting Authority.  - Searchlights for lighting the vehicle's surroundings:  On the roof of the superstructure, to install at least one white LED searchlight on the left and one on the right so as to illuminate the area around the vehicle. The lights are positioned in the upper part of the superstructure. The stated lights should have one common switch.  - Lighting inside the storage – superstructure:  To install LED lighting that has automatic switching on and off, placed in the guides or next to the guides of the shutters/doors via a switch that turns the lights on and off when the shutters/doors are opened or closed - automatic mode.  - Signaling and markings on the vehicle:  On the roof (the length is at least 2/3 of the roof width), to install integral light and sound signaling, flashing LED lights (red), electronic "howling" siren (with control panel and public address system with built-in microphone for speech controlled from the vehicle cabin (minimum power 100W),  LED blinkers, 2 at the front in the engine protection grille and 4 at the rear on the firefighting superstructure (two at the top and two at the bottom, of red colour).  On the front of the driver and passenger doors, to stick the Pančevo City Firefighters Association logo. The dimensions of the sticker are: height 29 cm and width 29 cm. Below the City Firefighters Association logo, to stick the fire department call number 193. The height of one number is 10 cm, and the width of the number line is 1.5 cm.  On the rear left- and right-side doors of the vehicle, to place the project logo "FIREGUARD", whose height is 15 cm and the width 29 cm.  On the hood of the vehicle and on the rear of the superstructure, to place the Cyrillic inscription in yellow reflective paint "ВАТРОГАСЦИ". The height of one letter is 10 cm, and the width of the number line is 1.5 cm.  The reflective tape for reduced visibility conditions to be placed on the sides of the vehicle and the superstructure.  The complete vehicle should be manufactured according to the special requirements of the customer and the safety technical requirements EN 1846-2.  - Water tank:  stainless steel / polyethylene / polypropylene  minimum volume 300 liters  water pump supply pipe  overflow pipe  tank drain valve  analogue water level gauge  tank filling is via opening on top of the tank and "Storz" coupling.  - Tank for the foaming agent:  stainless steel / polyethylene / polypropylene  minimum volume 5 litres  HIGH PRESSURE PUMP FEATURES:  - Engine:  V2-cylinder 4-stroke engine, minimum displacement 480 cm³, minimum power 11.5 kW  - Engine cooling method:  Engine cooling fan  - Fuel supply:  Fuel tank minimum 5 litres  - Water pump:  3-cylinder high-pressure piston pump  - Foam measurement:  mechanical, dosing rate from 0% - 6%  - Flow rate:  min. 35 l/min at 100 bars  - High pressure winch with nozzle:  Construction:  The winch is equipped with a brake and a handle for winding the rubber hose. The space for the winch with the hose is open, for more immediate action.  Hose:  Incompressible hose with an internal diameter of 12 mm and the length is 50-60m  Nozzle:  The nozzle is adjustable from full jet to water mist and with a foam attachment  - Control panel:  Hour meter  Pressure gauge  Starting via the key and via the pull start in case of emergency |  |  |  |

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| **All items** | **Delivery** of all items to following address: Pančevo City Firefighters’ Association, 96 Žarka Zrenjanina Street, 26000 Pančevo, Republic of Serbia.  Delivery period: 12 (months) days from the commencement date until the provisional acceptance. |  |  |  |
| **All items** | **Testing** of all basic functions of the instrument on a set of producers standard samples commonly used for the corresponding instrument.  Installed equipment must be tested as system, compatible with existing system. |  |  |  |
| **All items** | **Technical documentation** for equipment (Operating manuals/ Users Guide/ Equipment operating instructions/ Cleaning procedures/ Maintenance procedures/ Calibration procedures) upon delivery.  For all the required characteristics, the bidder is obliged to submit appropriate catalogues, brochures, declarations, and the like, in Serbian or translated into Serbian, if the offered product comes from a foreign manufacturer, on which the products and their required characteristics will be marked.  Technical documentation supplied with the fire engine for extinguishing fires in open areas and forest fires:  o Certificate from the Traffic Safety Agency after the modification (installation) of the vehicle.  o Proof of the completed technical inspection for registration, i.e. a completed and certified Registration Certificate for the motor vehicle.  o Certified service book with prescribed service intervals.  o Warranty certificate with warranty conditions.  o Instructions for use and basic maintenance in Serbian, in printed and electronic form (CD or USB) - two copies.  o Certified list of authorized service centres with addresses and contact telephone numbers. The bidder must have service provided on the territory of the Republic of Serbia for all the installed parts and equipment – to submit the authorization of the manufacturer or distributor  o Instructions for safe operation and use (safety measures) in Serbian in printed and electronic form (on CD) for each delivered asset.  o Spare parts catalogue. |  |  |  |
| **All items** | **Training**  The supplier is obliged to train all firefighters at the place of delivery, as well as practical work with a certified (by the manufacturer) fire instructor and to make a report on this. |  |  |  |
| **All items** | **Warranty**  Warranty period 365 days from the issuance of PAC (Provisional Acceptance Certificate) in accordance with article 32 SC and GC of the Contract. Offer must include warranty service description including:   * Service organisation contact data including name, postal address, telephone number, fax number and e-mail address; * Guaranteed that any requests for services will be attended to within 48 hours; * Guarantee that all items can be repaired or alternatively replaced within a maximum of 7 days; * Letter of confirmation that genuine spare parts and consumables will be available for a period of minimum 3 years from the date of final acceptance of the equipment. |  |  |  |
| **All items** | **Commercial warranty**  365 days from the issuance of FAC (Final Acceptance Certificate) in accordance with the conditions laid down in Article 32 of the General Conditions and Article 33 of the Special Conditions.  Detailed description of the organisation of the proposed service and description of the Manufacturer’s commercial warranty shall be included in the offer. |  |  |  |

**<Signature of authorised representative of the legal entity >**

**< Name and position of authorised representative of the legal entity >**

**< Date >**