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

**Contract title:** **TD 02 Supply of equipment p 1 /…**

**Publication reference:** 09-3482/2, CB006.2.12.067/02

**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.

**LOT 1** **Special Forest fire fighting vehicle**

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Fire fighting vehicle**  **Chassis**   |  |  | | --- | --- | | **Inter-axis distance** | 3400-3500mm | | **Engine** | diesel, min Euro 6 | | **Power of the engine** | min 180 ks | | **Transmission** | manual, synchronized | | **Drive** | 4x2 | | **Tires** | winter tires on all axles | | **Cabin** | 1+2 | | **Gross weight** | max. 7000kg | | **Brake system** | disc brakes, with ABS,EBD,ASR | |  |  |  |
| **Fire extinguishing upgrade**  **Carrier construction**   |  |  | | --- | --- | | **Construction** | Must be made of steel profiles interconnected with screws, welded and the base frame must be connected to the support on the boards. | | **Protection** | The carrying frame must be protected against corrosion by a hot damping procedure. | |
| **Front and rear upgrades**   |  |  | | --- | --- | | **Construction** | An integrated whole must be closed, made of suitable aluminum profiles manually connected with welding, adhesive and screw connection. | | **Access to the equipment** | It is necessary for the access towards the equipment to be opened with aluminum shutters. The interior of the upgrade is necessary to allow installation on the variable mounts of the equipment. | | **Roof** | It must be rounded with fence which allows safety moving of the roof. It is necessary to predict installation of articulated stairs. | | **Blinds** | The stations and the back side of the upgrade must be closed with aluminum roller doors “designed to securely close the spaces of the pumps and the equipment and to prevent the coming of dust and water. They must have double sealing and a structure that can prevent stuck in case when the inner equipment is disengaged from the holders.  It is necessary for the blinds to have hard and soft closing. The locking must be automatic, with the lowering of the pull bar. All shutters must have the possibility of locking. | |  |  |  |
| **Water reservoir (water tank)**   |  |  | | --- | --- | | **Capacity** | Min. 2500 lit. | | **Material** | Stainless steel-inox sheets, thickness min 4mm | | **Construction** | It should be made of profiles for additional strength. Inside the tank it is necessary to place barriers for waves that would prevent unwanted movement of the water and create waves that would damage the safety of the vehicle.  It is necessary for the reservoir to be attached to the support frame with elastic joints. | | **Reinforcement** | The tank has to be equipped with   * Reversible openings with diameter min. 500mm * Clear water drawn in a way to prevent the formation of a whirlpool, when pumping water from the reservoir to the pump * Overflow system for leakage of vacuum and pressure * Suction line * Filling valve for hydrants with a ball valve * Discharge ball valve * Electric water level gauge in the tank | |  |  |  |
| **Firefighting pump – normal pressure**   |  |  | | --- | --- | | **Model** | Centrifugal fire fighting pump, certified according to MKC EH1028 | | **Placing** | In the back part of the vehicle, attached to the carrying construction. | | **Drive** | Propel shaft with an auxiliary drive | | **Material** | The housing, the diffuser, the work wheel must be of a lightweight alloy with enhanced corrosion and salt water resistance. The pump inlet is made of stainless steel. | | **Capacity** | The flow within the suction operation from the water tank min 1770 l/min at 10 bars pressure. | | **Measuring and managing device** | The commanding must be manual and via control panel and the control of the pump must be performed via control assembly (command panel of the pump)  It must contain:   * Locator for start-up * Manometer of 0-25 bars * Lighting of the panel * Water level indicator * Command for regulation of the gas, that is the number of motors of the engine and thus the pump * A water pump valve from the pump reservoir * Timer for working hours | | **Pipeline** | Must be made of steel and protected by hot galvanizing in combination with rubber hoses that prevent the transmission of vibration to the pump and other elements of the installation. | | **Couplings** | They have to be wrought according to Shortz standard. | |  |  |  |
| **Vacuum pump**   |  |  | | --- | --- | | **Model** | Vacuum pump | | **Activating** | Manual | | **Drive** | With a wedge-like belt shaft | | **Immersion height** | Suction height 3m for approximately 5sec. |   **High pressure pump**   |  |  | | --- | --- | | **Model** | High pressure pump for foam and water | | **Placing** | Must be located in the front part of the upgrade on a slider drawer | | **Capacity** | Min. 42 l/min at 100 bars | | **Foam mixer** | 0-6%, manual setup, pulling the pen put of the reservoir in the interior | |  |  |  |
| **Winches and nozzles**   |  |  | | --- | --- | | **Normal pressure** | The winch with the hose must be equipped with a safety braking system and electric winding. The hose must be stable and non-forming rubber with a length of 30m, an internal diameter of up 35mm and pressure up to 20 bars. The ends of the hose are connected with a coupling which is used to place the nozzle for normal pressure. The nozzle should be disassembling with the possibility of adjusting the jets regulating the flow 0-200-00 l. | | **High pressure** | The winch must contain an unstable and non-forming rubber hose for high pressure for water and foam (over 100 bars), internal diameter min 10mm and length of 60m. | |  |  |  |
| **Electric equipment**   |  |  | | --- | --- | | Traffic | According to the national and international standards | | Lighting | Lighting in the cabin, the space for the pump and the equipment stack. Side lights above the superstructure must be fitted white lights to illuminate the space around the vehicle. | | Signalization | Four flashing lights behind the door, with intermittent ignition, on the upper part of the cabin, with light-sounding alarm, rotary lights in blue color, swiveling siren sound system with built-in microphone on the control panel. | |  |  |  |
| **Finishing and anti-corrosion protection**   |  |  | | --- | --- | | **Painting** | The upgrade of the vehicle will be painted in red RAL 3000. The chassis is colored in a color according to the technology of the undercarriage manufacturer black – RAL 9005 or grey – RAL 7003 | | **Anticorrosive protection** | The protection of the lower surface of the superstructure must be carried out in such a way as to enable the vehicle to be used in conditions of high humidity in the air min corrosion. | | **Steel material** | It is necessary for all the steel materials (primarily carrying elements of the construction) to be protected from corrosion. | | **Logos and labels** | The logo of the service, name of the unit, coat according to the order of the buyer. | |
| ***Additional requirements/ancillary services*:**  Warranty period from the date of signature of the provisional acceptance certificate 24 months, including the following;  Warranty period for the batteries from the date of signature of the provisional acceptance certificate –12 months;  In case of damage occurring within the specified warranty period, The CONTRACTING AUTHORITY shall notify the CONTRACTOR in writing. The warranty period shall stops running from the date of the written notification to the remedy of the damage.  The CONTRACTOR must take specific action on service calls up to 8 hours in working time and up to 24 hours for out-of-work calls during the warranty period. |  |  |  |
| In the case of damage to the vehicle during the warranty period, the CONTRACTOR undertakes to remedy the damage within fourteen days.  The CONTRACTOR is responsible for the qualitative and timely removal of the defects or failures. The repair is considered to be completed after demonstrating the correct operation of the pick-up in the presence of a representative of the CONTRACTING AUTHORITY, which shall be certified by a bilaterally signed protocol.  All costs associated with warranty service, incl. consumables /oils, filters, straps and all others according to the manufacturer's service and/or transport costs are at the expense of the CONTRACTOR.  The CONTRACTOR must organize and perform standard maintenance in good time in the warranty period. A schedule for the periodicity of these services must be presented at the delivery of the pick-up.  The warranties cover all costs related to transportation, postal services and communications in diagnostics, incl. troubleshooting on-site - within 14 days of the date of the written notification.  In case that hidden defects, for which the CONTRACTOR has been notified in writing, are identified (The authentication shall be carried out with a Protocol signed by both parties) within the warranty period, the CONTRACTOR is required to remove or replace poor quality components or equipment with new and/or the same but with better characteristics, if the disadvantage renders them unfit for purpose use. All costs of removal/replacement are at the expense of the CONTRACTOR.  The contractor should organize training for using of the provided vechicle for the representative of firefighnting department in municipality of Shtip, |  |  |  |