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

**Contract title: Delivery of specialized firefighting equipment p 1 / 12**

**Publication reference:** 035-SUPPLY-Suloglu-08

**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.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1.1** | **Portable fire pump**  **-** Single-stage centrifugal pump made of lightweight alloy  - Piston priming pump with magnetic clutch and automatic control  - the high maximum discharge pressure should be at least from 10 to 15 bar that would make it possible to use fewer portable pumps for transporting water over long stretches;  - Water-cooled engine should be optimized for use in hot and cold countries and under the most adverse environmental conditions;  - Integrated control and instrument panel should contain the following controls: start button, stop button, Piston priming pump actuation button, Ability for adjusting engine speed, Ability for pump pressure governor activation button, illumination button, Idling speed button;  - the color display shall display the following statuses: Battery voltage indicator (V); Tank capacity indicator; Cooling water temperature indicator; Output pressure display; Input pressure display; Warnings and error messages; Service information (operating hours, last service performed); language: Bulgarian (preferably) or English or Russian;  - Pump pressure governor with cavitation warning and intake pressure monitoring  - Illumination - Integrated, glare-free backlighting of the control panel, Powerful LED headlight, height-adjustable and removable with spiral cable for maximum flexibility;  - Carrying frame - Ergonomic, foldable handles, rubberized handles for carry comfort;  - Fuel tank with tank capacity for long usage;  - Detached operation - Additional control and instrument panel, detached from the pump, e.g. for operation of the pump from a vehicle for a pump-and-roll operation |  |  |  |
| **1.2** | **Suction hose**  Diameter: compatible with position 1.1  Length: min 2 m;  Made of synthetic rubber, corrugated, steel wire reinforced; Maximum pressure loads - 6 bar,  Maximum vacuum load - 0.8 bar |  |  |  |
| **1.3** | **Suction strainer**  Compatible with position 1.1 and 1.2  Made of lightweight aluminium alloy |  |  |  |
| **1.4** | **Pressure hose**  Compatible with position1.1, 1.2 and 1.3  L= min 20m, made of aluminium alloy |  |  |  |
| **2** | **Submersible pump type I**  The integrated flat suction device shall be able to pump out water down to min 8 mm! Fully submersible, pressure tight electric motor.  Motor housing, Suction strainer (Sea water resistant aluminium casting), Suction sieve, Screws, Nuts (Stainless steel), Motor Jacket (Stainless steel) Motor shaft (Stainless steel); feed-through area (length: min 20 m) |  |  |  |
| **3** | **Submersible pump type II**  The integrated flat suction device shall be able to pump out water down to min 4 mm! Fully submersible, pressure tight electric motor.  Motor housing, Suction strainer (Sea water resistant aluminium casting), Suction sieve, Screws, Nuts (Stainless steel), Motor Jacket (Stainless steel) Motor shaft (Stainless steel); feed-through area (length: min 20 m) |  |  |  |
| **4** | **Nozzle**  With adjustable flow rates (min 130 – max 400 l/min) at 6 bar operating pressure of the nozzle; Max. range: 44 m; Rotating teeth made of stainless steel; adjustable flow and jet shape adjustment from compressed jet to mist type jet |  |  |  |
| **5** | **Portable Hydraulic Jack**  Lifting force: min 50 KN (min 5 tons);  Maximum lift - 300 mm;  Including the obligatory accessories for normal working - adapter, power connector, battery, crown, detachable main heel |  |  |  |
| **6.1** | **Rescue lifting bag**  Lifting bag set that works up to maximum lifting power min 12t, Insertion height: min 1cm - max 4 cm, Max lifting height: min 19 cm and should include the following components: 2 inflation hoses, Pressure regulator, Packing bag |  |  |  |
| **6.2** | **Pressure reducing valve 200/300 bars**  Compatible with position 6.1 |  |  |  |
| **6.3** | **Totten controller with lighting**  compatible with position 6.1 |  |  |  |
| **6.4** | **Hose for inflating of the pillow**  Length min 5 м, compatible with position 6.1 |  |  |  |
| **6.5** | **Steel Air Cylinder**  Capacity: min 6l, compatible with position 6.1 |  |  |  |
| **7.1** | **Combined rescue tool for cutting and spreading**  A tool that combines a spreader and a cutter in one rescue tool. It should be able to work in heavy rain, flood or even under water, waterproof.   * Cutting force up to min 320 kN; * Cutting round steel up to min 28 mm; * Spreading force 25 mm from tips - min 29 kN * Pulling force – min 50 kN * Battery - include the battery with the longest possible operating time * Cutting Class - (the highest); * Protection class - max possible |  |  |  |
| **7.2** | **Battery**  Suitable for position 7.1 min 5Ah - With charge indicator |  |  |  |
| **7.3** | **Charging device 220V**  Suitable for the proposed battery in position 7.2 |  |  |  |
| **8.1** | **Electric chainsaw**  Device with mechanical safety switch, automatic chain brake, chain-chater, soft-start. Bar length: min 40 cm, Voltage- 230 V, Power rating 2000 V |  |  |  |
| **8.2** | **Protection helmet**  Set with textile harness for comfort and low pressure against the head and should include the visor and hearing protectors |  |  |  |
| **9.1** | **Scaling ladder**  The ladder should allow to be used by two persons with a minimum weight capacity of 220 kg. The beams should be made of high-strength light alloy. Grooved strong square rungs. The ladder system should be compatible with all usual ladders |  |  |  |
| **9.2** | **Bridge for scaling ladder**  It will transform 2 scaling ladders into a freestanding ladder by placing it on top of the ladders (to create a bridge). Made of reinforced, durable light alloy. |  |  |  |
| **10.1** | **Firе Jacket**  Material: The outer shell should be made of flame- and heat resistant fabric, providing the highest level of protection. The lining should be made of suitable material for the human body in a high temperature environment; The jacket's shoulder seam should be low-necked, giving high freedom of movement. It should be closed by a highly heat resistant zipper which is then covered by a panel, High collar fully lined with throat closure tab, Set-in sleeves, 2 bellows type breast pockets.  It shall meet the requirements of EN 469, or equivalent. |  |  |  |
| **10.2** | **Firе Trouser**  The outer shell should be made of tough flame- and heat resistant material with carbon fibre (which prevents electrostatic charges); The middle lining should be a breathable and waterproof membrane; This membrane will also act as a vapour barrier, protecting the fireman during extinguishing operations, A thermal liner that is permanently sewn in the trousers should ensure temperature insulation; The lining should be made of suitable material for the human body in a high temperature or humidity; 2-side pockets, fastened waist tab to adjust fit; Elasticated braces with buckle fastening; Double face knee patches.  It shall meet the requirements of EN 469, or equivalent. |  |  |  |
| **10.3** | **Fire Fighting Helmet**  Ergonomic, optimised 3-point chin and neck strap made of heat and flame-resistant material; Adjustable leather headband, the inner lining should provide maximum safety and wearing comfort; There should be comfortable padding inside for excellent wearing.  It shall meet the requirements of EN 443 or equivalent. |  |  |  |
| **10.4** | **Fireman's Safety Belt**  Made of min 85 mm polyester webbing, flame retarding, with dual thonged buckle, rope length min 800 mm, Ø12 mm with hook.  It shall meet the requirements of EN358 or equivalent |  |  |  |
| **10.5** | **Firefighting Gloves with cuff**  Five-finger gloves with knuckle protectors and cuff, which should be extremely supple and remain supple and flexible even after frequent soaking and drying of glove. The gloves should be waterproof and breathable.  It shall meet the requirements of EN388 or EN 659 or equivalent |  |  |  |
| **10.6** | **Fire protective boots**  Made of hydrophobic waterproofed leather, lined with membrane watertight and breathable, protection against viruses, bacteria, bodily fluids and various chemicals, Ankle protection for optimum safety at operations; Improved composition; Flex zone for increased wearing comfort – even while crawling and driving; antistatic outsole with air chambers shall guarantee excellent insulation from heat and cold, skid-proof and wear-resistant, oil and petrol-proof; Robust pull-on tag for comfortable entry and pull out; Reflective elements at visible areas; Easy to clean  It shall meet the requirements of EN 15090 or equivalent |  |  |  |
| **11** | **Rain protection set (Trouser, Coat with hood)**  Made of a double PVC-coated nylon material with good resistance to hazardous liquids. Enormous tear resistance. High-frequency welding of the seams that shall guarantee an absolute watertightness.  It should be manufactured in accordance with EN 343 or equivalent |  |  |  |
| **12** | **Portable LED projector**  Light Source: LED; Batteries, Beam Distance min 160 m; Battery Burn Time min 7hrs |  |  |  |
| **13** | **Lighting System**  High smart LED lighting system that shall ensure a lighting duration of work min 6 h - max 8 hours; Turnable light head that shall allow movement in all directions; high performance LEDs with specially designed lens system and multicolor LEDs; charger 12/24 V 2 m with plug for cigarette lighter; intelligent monitoring system that shall prevent over- and discharge and shall protect own and vehicle battery; integral tripod stabiliser legs that shall a sturdy stable base for mast at full extension. |  |  |  |
| **14** | **Stretcher foldable length wide**  Aluminium basic frame; Hard-wearing cover made of chemical fibre fabric; Integrated head pillow pouch; Firm, lockable joints for folding; Two adjustable belt straps with quick locking device for securing patient  It should meet the requirements of DIN 13024 N or equivalent; |  |  |  |
| **15.1** | **Basket stretcher with belts, mat and footrest**  Basket stretchers need be made of high quality, impact resistant and hard-wearing material, with a full aluminium tube frame. The basket stretcher will be used horizontally or vertically. The basket can be used as a dragging basket or as an abseil basket stretcher. Four large metal reinforced rings for attaching karabiners need be fitted on the sides. They need to be corrosion, chemical and extreme temperature resistant. The side walls act as protection against pressure and collisions, it should include adjustable foot supports (depending on patient size), continuous recessed grips on the sides, continuous nylon rope which the safety belts can be attached to. |  |  |  |
| **15.2** | **Lifting bridles**  With 4 carabiners for basket stretcher compatible with position 15.1 |  |  |  |
| **15.3** | **Carrying bag**  Bag for basket stretcher compatible with position 15.1 |  |  |  |
| **15.4** | **Six-point belt in extreme rescue situations for spine-boards and basket stretchers**  Special 6- point SCHROTH belt to quickly and safely secure patients in extreme rescue situations compatible with position 15.1 |  |  |  |
| **16** | **Life - jacket "SAFETY AUTOMATIC**"  Faint -proof life jacket. Inflation occurs upon water contact by means of a CO2 cartridge or by manual release with the toggle fastening. It should be certified as to EN 396 or equivalent. |  |  |  |
| **17** | **Emergency backpack for fire brigades**  High – grade bandage material, such as textile triangle-bandages, rescue-cover, aluminium bandage, sterile wound-compress, various bandages for fixing, mull, momentary-bandages, finger-bandages, various plasters and leather finger-stalls |  |  |  |
| **18** | **Warning pyramid**  WITH DANGER SYMBOL, 60 CM, Foldable traffic sign with lettering. With covering. |  |  |  |
| **19** | **Flashing foldable traffic control cone 60 CM**  Visible from all directions (360°) from over 900 feet. With integrated, powerful flashing light for even better visibility in the dark or under twilight conditions. Easy handling. |  |  |  |
| **20** | **Europe barrier tape**  The non-adhesive tape in roll 500 m long and 80 mm wide. Red/white printed stripes on both sides. |  |  |  |
| **21** | **Power Generators**  For use in Fire departments or users who require a higher level of protection, power min 8 kVA with digital display, working in emergency mode. Type – synchronized with electronic controller; External power supply - plug for vehicle connection, Voltage – 230/400 V; 2-cylinder and 4-stroke gasoline engine, cool cleaner, Consumption – approx. 6 l/h under full load, user manual (certificate) for appropriate use in EU with CE Declaration of Conformity, spare parts list and circuit diagram |  |  |  |

* The tenderer shall warrant that the supplies are new, unused, of the most recent models and incorporate all recent improvements in design and materials.
* The Technical Specification describes the minimum requirements. Participants should offer equipment fully covering or exceeding the minimum parameters and functionalities set out in this specification.
* The supplies must comply with the most recent European standards for the respective equipment.
* At each reference to a standard, specification, technical evaluation, technical approval or technical standard above, the Contracting Authority shall also accept the equivalent (s).
* For those specified in the Technical Specification: specific standard, specification, technical evaluation, technical approval, technical standard, specific process or method of manufacture, specific model, source, specific process that characterizes the product or service, trademark, patent, type, specific origin or read production to be supplemented by the words "or equivalent".