

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

Contract title: Supply of “Purchase of Fire Fighting vehicle for urban terrain and forests 4*4, with a capacity of 5000 lt” in the framework of the Fire Prep project, IPA CBC Greece-Albania

Publication reference: FirePrep/NCPA/MOD/IPA CBC Greece-Albania

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 offered specifications.

| 1. Item number | 2. Specifications required | 3. Specifications offered | 4. Notes, remarks , ref to docume ntation | 5. Evaluation committee's notes |
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| 1 | <p>Model: 4 * 4 ENGINEE: EURO 6 EMISSIONS: EURO 6D CABIN: 6 seats Cabin: 4X4 DOUBLE CABIN WITH 6 (1 + 1 +4) PLACES MAX SPEED> = 110 km / h AXIAL DISTANCE: 3400 mm - 4500mm AXIAL CONFIGURATION: 4X4 Dimensions of the vehicle approximately:-8.0 * 2.5 * 3.7m Ground clearance: > = 350 mm WATER DEPOSIT: 5000 LITERS KILOMETERS: 0 KM PRODUCTION: Production of European Union countries certified with a Certificate of Origin or certificate of conformity TOTAL WEIGHT OF THE VEHICLE : 14,100 Kg STANDARD EQUIPMENT: Audio / picture / radio equipment / radio broadcasting agents POWER TAKE-OFF Included in the base tool</p> <p>Must be produced no later than 2021</p> | | | |

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| | <p>FIRE PUMP CLASS: 3000l/min @ 10 bar FPN10-3000 TYPE: Medium pressure to high pressure SUCTION INLET: 5" BSS RT OUTLETS: 2 (4) X BSS MORRIS 2 ½" 2 (1) X HOSE REEL 60 meters 1"</p> | | | |
| | <p>WATER TUNK: MATERIAL: Stainless Steel 316 L / 304 L / PP SHAPE: Cubic CAPACITY: 5000 LITERS - water tank with a capacity of 5000 l (composite) - average tank with a capacity of 500 l (composite) - automatic hydrant filling valve The water tank has a capacity of 5000 liters and is made of stainless steel (314 / 316L). The tank is equipped with movable displacement walls which are included along the transverse and parallel sections. The water tank is mounted elastically according to the chassis manufacturer's manual.</p> | | | |

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| | <p>FOAM TANK MATERIAL: Stailless Steel 316 L /PP SHAPE: Cubic CAPACITY: 400- 800 LITERS</p> <ul style="list-style-type: none"> • Will be manufactured minimum of 400 liters capacity • Will be produced by 4 mm AISI-316 L/PP stainless steel material. • Foam tank will have at least 4” diameter cover on the top for filling. • Minimum 1.5” diameter ventilation and overflow pipe will be available on tank • Minimum 1” pump foam mixer connection outlet will be available on tank • Minimum 1” tank discharge and cleaning valve will be available on the top of tank. • Foam tank; will be mounted to upper position of rear or front compartment. • With advantages of flexible and independent connection technology. If necessary, foam tank can be removed independently. • There will be foam suction line between foam tank and foam mixing unit. • The foam mixing will be through manual mixing valve. The foam mixing system can be adjusted between %3-%6 ratio • A digital foam level indicator will be available on the control panel. • Suitable for A and B type foam. <p>STORAGE LOCKERS QUANTITY: 3+3+1 LOCKING: 3+3 Lateral roller shutters 1 Rear door / Roller shutter</p> | | | |
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| | SUBSTRUCTURES Under the structure will be produced carbon steel with a thickness of at least 6mm st.52. • The substructure will be covered with galvanized material in order to prevent oxidation. | | | |
| | SUPERSTRUCTURES The fire-fighting superstructure will be mounted on a sub-structure. Mounting will be done by suitable equipment and there will be no gluing between the main chassis and under the chassis | | | |


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| | BODY BUILDING <ul style="list-style-type: none"> • The body of this whole structure for the fire extinguisher will be made of iron profiles. • The skeleton of the superstructure, the partition walls and those of the floor will be made of iron constructions. • Main bonding materials will be anti rust. • At the top of the vehicle there will be a safety exit barrier with a special design. The barriers will be monotile and luminaires will be placed on them for ambient lighting. • On the side at the back will be a safety degree for climbing. The ladder will be made of aluminum and foldable. • Equipment cabinets will have aluminum shutters that can be closed. • All electrical cables will be laid in the cable ducts inside the profiles. | | | |

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| | WATER DEPOSIT 5000 liters <ul style="list-style-type: none"> • There will be horizontal and vertical stabilization plates inside the water tank. • A unit with ϕ 450mm as a cover for the central entrance to the tank. • Equipped with two filling places on both sides of it, which are 1.5 inch with immediate coupling closure • Water filling and circulation and ventilation are designed in such a way as to minimize water loss. • 2 shark discharge ports • The upper part is covered with non-slip material. • Site filter to protect the pum.....p. • Electronic indicator for the water level in the tank. • The water tank will be located in the center of the structure • The water tank will be fixed on the substructure by a fixing lock in order to prevent vertical and horizontal movements of the tank. | | | |

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| | <p>FOAM DEPOSIT</p> <p>The capacity of the foam tank will be 500 liters.</p> <ul style="list-style-type: none"> • The tank will be made of stainless steel Stainless Steel 316 L / PP • A 4 "lid will be intended to fill the tank from above • The foam tank will have a 1.5" vent and overload valve and a connection for mixing the foam together with a valve for emptying and cleaning the tank. • Water foam system: <ul style="list-style-type: none"> - dual beam pump, type A 32/8 - 4/40 - speed 3500 l / min at 8 bar - speed 400 l / min at 40 bar - average foaming generating unit (3% and 6%) - fast approach, electric and manual winding with a length of 60 m with height-pressure - cleaning the line using compressed air - water foam ball, type DWP 8/16 - front and side sprayers - continuous pump pressure maintenance system <p>The foam tank will be fixed by means of flexible and convenient connections. The foam tank can be easily moved from the top where it is located without the need to move other dividers.</p> <ul style="list-style-type: none"> • All other parts related to the foam deposit will be cleanable and will be manufactured with corrosion resistant materials. | | | |

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| | FIRST AID HOST WATER DISTRIBUTOR There will be a water cooled hose at the pump location. <ul style="list-style-type: none"> • The hub is equipped with a 40 m hose and a pistol outlet. • This hose will operate at a pressure of 40 bar. • The pistol will have the function of sputtering and throwing. • Its mode of operation will be manual and electrical. • The hose will be placed on a wrapper in order to collect and release it regularly. | | | |
| | Extinguishing tanks Water tank with a capacity of 4500 l (composite) <ul style="list-style-type: none"> • average tank with a capacity of 450 l (composite) • automatic hydrant filling valve | | | |
| | PUMP Centrifugal pump, for push and suction and pump capacity should be over 3000 liters per minute, with pressure 8-12 bar. The water pump system must be connected to a drum (rubber pipe) with a diameter of 50 mm and a length of 50 ml (be of high pressure standard) The centrifugal pump must be part of the fire truck and in operation, all pump outlets must be of European Standard. (STROZ) | | | |

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| | <p>PRESSURE DISCHARGE FROM THE UPPER VEHICLE</p> <p>The pressure nozzle from the top of the vehicle will be folded during non-use and will be checked and operated manually.</p> <ul style="list-style-type: none"> • It will have a capacity of 1200 liters per minute under a pressure of 10 bar. • There will be a throwing pistol with spraying function and strong throwing. • Its composition will be aluminum. • Will have an ability to move 360 degrees horizontally and - 15 degrees to +75 degrees vertically. • There will be a water thrower distance of at least 55 meters, under normal atmospheric conditions. | | | |
| | <p>LAMPS</p> <ul style="list-style-type: none"> • LED lamp • 12 VDC / 24 VDC operation • RED • 280 mm x 45 mm x 1450 mm (E x H x L) • 13 kg • With PAS (Public Address System) • Four different sound systems - with a capacity of 100 Watt - mounted on the cab chassis, complete with special autopollants in the cab. | | | |

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| | <p><u>Warning System:</u></p> <p>Bar Type beacon lamp will be mounted on driver cabin with below specs:</p> <ul style="list-style-type: none"> • Power led will Be used, • Polycarbon optic lens will be used • There will be neodymium speaker will be in middle of bar • High efficiency led lightning • 12 VDC or 24 VDC (21-30 VDC) power options • Lighting supply 1W or 3W options • Speaker Neodymium N42/1000W • Speaker Empendance 8 ohm or 11 ohm • Polycarbon plastic material will be used • Red, Blue, White, Green plastic color options are available  | | | |

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| | ELECTRICAL INSTALLATIONS <ul style="list-style-type: none"> • Monolithic light bulb on the left side • Monolithic light bulb on the right side • 6 x Pulsed light on the left side • 6 x Pulsed light on the right side • 1 x Backlight lamp • 2 x Pulsed blue light at the rear • Signal lamp on the back • 2 x Pulsed blue light on the front of the vehicle. | | | |
| | Bodywork COLOR: RAL 3000 (RED) | | | |
| | STEERING SYSTEM: In working condition and with steering wheel on the left arm. | | | |
| | BRAKING SYSTEM: ABS system In working condition of two types of brakes, parking brake and retarder brakes. | | | |
| | THE VEHICLE must be complete with the necessary signage. Portable floodlights with fixing and corresponding cable | | | |
| | THE FIRE TRUCK must have 2 pairs of ladders with hydraulic lifting and lowering system. | | | |
| | THE VEHICLE must be mounted on the cab Removable cage « in which different ladders are placed (lowered and raised). | | | |


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| | THE VEHICLE must have an input socket with a voltage of 220 -240 Volts to make the supply to some internal sockets in the car for the use of equipment. | | | |
| | THE VEHICLE must have an outside air supply. | | | |
| Kabina: | Standard cabin, protected from corrosion, suitable for 6 seats. The cabin forms a fully enclosed unit and is secured on each side with large front doors, suspended in front, with manually operated windows. Large rear view mirror left and right. The driver's seat is equipped with backrests and seat belts and can be adjusted horizontally and vertically. The front passenger seats should be equipped with backrests and seat belts. Underwear made of non-abrasive material; the ceiling light cabin lights up automatically when the doors are opened. Factory fitted air conditioning system is provided | | | |


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| | <p>The instruments that are part of the cabin are:</p> <p>Speedometer with odometer and tripod.</p> <p>The counter of the revolution.</p> <p>Coolant temperature gauge.</p> <p>Fuel gauge.</p> <p>Air pressure gauge.</p> <p>Front and rear fog light warning lamps.</p> <p>Danger warning light.</p> <p>Warning light for direction indicator.</p> <p>"Low" oil and air pressure warning light.</p> <p>Parking brake warning light "engaged".</p> <p>"High" coolant temperature warning light.</p> <p>Emergency lights, siren and P.A. system.</p> <p>Light and noise control for open doors and shutters.</p> <p>Control light for PTO engagement.</p> | | | |


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| | <p>The firefighting vehicle must be equipped with</p> <p>6 units - Folding road cone 40 cm</p> <ul style="list-style-type: none"> • 1 unit - Stairs, length 9m, 3 sections • 10 units - Hose / delivery hose, 38/20 BS 1 1/2 " • 8 units - Hose / delivery hose, 64/20 BS 2 1/2 " • 2 units - Suction pipe, PCV 100 / 2m BS 4 " • 1 unit - BS 4 "suction sieve • 1 unit - Pipe tube for PP2 foam • 1 unit - PP4 nozzle tube • 1 unit - Turbo water pipe 100-500 BS 2 1/2 " • 1 unit - Turbo water pipe 100-500 BS 1 1/2 " • 1 unit - BS Belt Separation 2 1/2 " / 2x1 1/2" • 1 unit - BS Belt Sharing 2 1/2 " / 3x2 1/2" • 1 unit - Underground hydrant switch • 2 units - Ground hydrant switch • 1 unit - fire blanket 140 x 180 cm • 2 units - ABC dust extinguisher 6 kg • 1 unit - Hooligan tool 91 cm • 1 unit - Shovel • 1 unit - Hatchet • 1 unit - Hammer 5 kg • 1 unit - 750 mm trailing strips • 1 unit - Lightning cutter, 600 mm / 10 mm | | | |


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| | <p>STANDARD EQUIPMENT:</p> <ul style="list-style-type: none"> - BOS 200 sound signal generator - mast lighting with light moving LED towers <p>Haulage radio communication equipment</p> <ul style="list-style-type: none"> - independent cab heating and automatic WEBASTO separation - cabin air conditioning - wave of light - return camera - installation on the CANBus system <p>Various pipes of European standard STORZ (50 mm, 70 mm)</p> <p>100 mm rubber pipe for water suction minimum 10 linear meter</p> <p>Pipes for hydraulic equipment</p> <p>Various water jets</p> <p>Adapter for water jets</p> <p>Different branches</p> <p>Electric drum + light bulb</p> <p>Hydraulic Cutter (1 Piece)</p> <p>Hydraulic Opening Machine (1 Piece)</p> <p>Hydraulic Lifting Apparatus (1 piece)</p> <p>Portable lighting (minimum 2 pieces)</p> <p>Mechanical lever for lifting with lever (minimum 2 pieces)</p> <p>Foam bomb for first aid</p> <p>The engine that operates the hydraulic equipment</p> <p>Various air cushions (210 mm, 285 mm, 340 mm, 405 mm)</p> <p>Different ropes.</p> <p>Shoes for firefighters</p> <p>Hats and masks (6 pieces)</p> <p>Oxygen bombs and bytes (minimum 3 pieces)</p> | | | |
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| | stretcher Ambulance boxes Various levers for opening constructions Various wrenches for loosening and tightening pipes Various accessories such as axes, shovels, hammers, pliers, wrenches. Stabilizer for accidents Pneumatic scissors Large searchlight (2 pieces) PWPSystem Compressed Foam System (CAFS) | | | |

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| | <p><u>Siren and Alarm system:</u> Will be mounted on driver cabin with below specs</p> <ul style="list-style-type: none"> • Slow, fast, Hi-lo, manual or horn siren options • PU type spiral cable, all in one control panel with lighting • Microphone control through control panel <p>RS232 information protocol Siren output power 100WRMS</p> <ul style="list-style-type: none"> • Announce Output power 50WRMS • Frequency reply 300 Hz-10.000 Hz, max $\pm 3\text{dB}$ • Siren types : Slow, Fast, EI, Hi-Lo • Functions : Siren, announce, Lightning warning control, external AUX, volume control  | | | |


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| | <p>Additional Equipment's:</p> <p>HYDRAULIC CUTTER: Dimensions:930 x 265 x 253 mm EN-Classification:CC 200 K – 26,1 EN cutting class: KEN Cutting capacity:1K-2K-3K-4K-5K Weight:24,9 kg Blade opening:204 mm NFPA cutting classes: A9, B9, C9, D9, E9, F5 Round steel up to:45 mm Cutting force up to:1376 k NProtection class:IP 58Series:eWXT</p> <p>Battery 5AH and 9 AH, power supply unit Ewxt, battery charger Ewxt</p>  <p>or equivalent*</p> | | | |

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| | <p>HYDRAULIC SPREADER</p> <p>Dimensions: 997 x 309 x 253 mm</p> <p>EN-Classification: BS 63/813 - 24,6</p> <p>Weight: 23,4 kg</p> <p>Squeezing force up to: 122 kN</p> <p>Protection class: IP 58</p> <p>Series: Eëxt</p> <p>Spreading force: 63 - 600 kN</p> <p>Spreading distance: 813 mm</p> <p>Pulling force up to: 60 kN</p> <p>Pulling distance: 655 mm</p> <p>Battery 5AH / 9 AH, power supply unit Ewxt, battery charger Ewxt, KSV 11,</p>  <p>or equivalent*</p> | | | |

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| | <p>HYDRAULIC RAM Type: Telescopic cylinder Dimensions: 627 x 140 x 327 mm Extended length: 1503 mm EN-Classification: R 127/451-60/425-21,5 Total lift: 876 mm Lifting force piston 1: 127 Kn Lifting force piston 2: 60 Kn piston stroke piston 1: 451 mm piston stroke piston 2: 425 mm Weight: 20,3 kg Protection class: IP 58 Series: Ewxt</p> <p>Battery 5AH / 9 AH, power supply unit Ewxt, battery charger Ewxt, KSV 11,</p>  <p>or equivalent*</p> | | | |

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| | <p>HYDRAULIC MULTI-TOOLS Dimensions: 987 x 266 x 253 mm EN-Classification: CK 43/475-J-25,2 EN Cutting capacity: 1J-2K-3K-4K-5K weight: 24 kg NFPA cutting classes: A8, B9, C9, D9, E9, F5 Round steel up to: 40 mm Cutting force up to: 885 kN Protection class: IP 58 Series: Ewxt Spreading force 25 mm inéard tip: 43 Kn Spreading force up to: 1500 kN Spreading distance: 475 mm</p> <p>Pulling force up to: 94 kN Pulling distance: 340 mm Battery 5AH / 9 AH, power supply unit Ewxt, battery charger</p>  <p>or equivalent*</p> | | | |
| | <p>RESCUE SAW PACKAGE:</p> <ol style="list-style-type: none"> 1. Saw 2. (3) blades | | | |

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| | <p>3. (2) 40V batteries 4. 330W battery charger 5. Reflective shoulder strap</p> <p>Product Name: Rotary rescue saw Cylinder displacement: 93.6 cm³ Power: 4.8/kW Cutting depth: 125mm/145mm Grade: SUS201, SUS304, SUS316, A2-70, A2-80, A4-80, 4.8 6.8 8.8 10.9 12.9 Saw blade diameter: 14"(350 mm) 16"(400 mm) Cylinder inner diameter: 56mm Cylinder stroke: 38mm Additional tools in the package:</p> <ul style="list-style-type: none"> • Choke • Active Air Filtration™with K&N Filter • Integrated Srench Tool Holder with water Control Valve • Eater Kit Dust Handling System • Adjustable Blade Guard • Compression Release for Trouble-Free Ease of Starting • "D" Starter Handle with Reflective Label and Extra-Large Opening for Gloves • Momentary Contact On/Off Switch • Reflective Labels • Covered Belt Guard Protects Drive Belt from Debris • Belt Tension Indicator • Fuel Level Indicator • Full-wrap Handles | | | |
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