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

**Contract title: Procurement of Water mobility means and Land mobility means for project "Safer climate within the Romanian-Serbian border Area - SAFE"**

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**Publication reference:** **RORS00004 - TD04**

**LOT no.1 - Water mobility means – Boat**

**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** | **Boat with hard/metal bottom, Quantity: 1 Unit** |  |  |  |
|  | **Required technical characteristics:**  • Length: min. 8m , max. 9m  • Width: max. 3.5 m  • Draft: up to 0.5m  • Plate thickness: min. 4 mm  • Hull shape: “Deep V”  • Capacity: min. 6, max. 10 people  • Sleeping space: for min. 2 persons  • Two diesel marine engines with a total power of min. 350 hp per engine (total power min. 700 hp) or two outboard engines of min. 250 hp each (total power min. 500 hp), depending on the manufacturer’s specifications and hull characteristics,  • Fuel tank capacity: min. 300 l  • Material: Aluminium  **Additional features:**  • Hydraulic steering system  • Windshield wipers (one per divided glass area, as applicable)  • Front cabin door, sliding door for access to the stern (depending on the boat model, front cabin door is not required if there is space around the cabin for access to the front deck and space)  • External ambient deck lighting (front and rear) with LED lights (depending on the boat model)  • Non-slip floor mats (depending on the boat model)  • Mechanism-equipped steering seats  • Electric anchor winch for lowering and raising from water  • Rear working platform for the boat engine (depending on the boat model)  • Stainless steel and/or aluminium (if durability for the intended purpose is guaranteed) side and bow rails, side handles, and cabin handrails  • 360⁰ glass surface around the cabin (panoramic roof if possible, depending on the boat model)  • Side windows (sliding opening)  • Fire extinguishers  • Main power switch with automatic fuses  • Two automatic and manual bilge pumps  • Navigation LED lights  • Mast  • Power outlets in the cabin: 220V x min. 3  • Power outlets in the cabin: 12V x min. 3 / USB x min. 3  • External power outlets: waterproof 12V x min. 3  • Rainwater drainage from the deck  • RIS system with transponder and monitor  • Front roof LED spotlights on the left and right sides  • Side LED spotlights on the cabin roof  • Stern LED spotlights on the cabin roof  • Police light and sound signalling  • Heating and cooling system (energy-efficient and effective at all speeds and conditions), operating without the need for boat engine. Boat has to be equipped with a special (preferably roof-mounted) air conditioner for cooling the cabin, and a special device for heating the interior of the cabin.  • Separate toilet area (sanitary unit)  • Radar device compliant with Serbian regulations (minimum 12-inch display, synchronized depth sounder, sonar, GPS device, and charts)  • Control panel with switches  • Radar reflector – FAR  • Auxiliary side crane for lowering and lifting cargo (depending on the boat model)  • Auxiliary motor holder with auxiliary motor and cover, minimum 20 hp, and fuel tank (in case of a single main engine on the vessel)  • 220V shore power connection  • Radio stations with working maritime channels and police working channels  • Interior (ambient) cabin lighting (depending on the boat model)  • Safety equipment (life jackets, fenders, boat hook, mooring lines, auxiliary floating ladders, reels, floating ropes, oars)  • Cabinets in the cabin for storing regular and special equipment  • Trailer for hauling and transporting the boat,  • Boat has to be branded with the marks of the Ministry of Interior of the Republic of Serbia and the border police, as well as to have built-in light and sound police signals.  **Thermal imaging camera for the vessel**  • Thermal and daylight camera, min. two sensors on a unique PT mount, PAN 360◦  • Thermal sensor (uncooled), VGA resolution 640x480 with a minimum 3x optical zoom and autofocus, motorized lens range from minimum 35mm to 105mm  • Detection, Recognition, and Identification of Human Targets  • Detection range minimum 2.000 m  • Recognition range minimum 700 m  • Identification range minimum 300 m  • Detection, Recognition, and Identification of Vehicles  • Ambient day/night camera with full HD resolution minimum 1080p, with a minimum 30x optical zoom.  **Camera Cabinet**  • Temperature range from -40°C to +50°C  • Minimum IP66 protection category  • Must meet the conditions for mounting on a pole with a platform. Lenses must be compatible with the camera sensor type. Cameras must support ONVIF standards.  **Camera Mounts**  Camera mounts must be compatible with housings designed for outdoor use and installation on vessels. All telecommunications infrastructure and power supply infrastructure necessary for camera operation must pass through the camera housing mount. It is necessary to provide an appropriate joystick for camera control, as well as an appropriate monitor that will be installed in the vessel cabin, maximum 24 inches. |  |  |  |

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| **All items** | **Delivery** of all items to following address: Veliko Gradište Border Police Station, Obala Kralja Petra I br. 9, Veliko Gradište 12220, Republic of Serbia. |  |  |  |
| **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. |  |  |  |
| **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. |  |  |  |