

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

**Contract title: Supply of Special utility vehicle - Water jet**

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**Publication reference: 48-00-00163/2021-28-1, 3749/22, TD2-2**

**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 documentation	5. Evaluation committee's notes
1	<b>Item name: Special utility vehicle - Water jet</b> <b>Quantity: 1</b>			
	<b>Technical characteristics of the basic vehicle (chassis)</b> New, unused vehicle, year production min. in 2023 Total permissible vehicle weight min. 7200 kg maximum 7500 kg Allowed max. front/rear axle load: min. 2500/5300 kg Drive configuration 4x2. Rear axle drive. Daily, short cabin with min. 1+2 seats in the cabin Safety Seat belts for all seats Wheelbase 4000 – 4100 mm Cabin width: min. 2000 mm Gearbox manual minimum 6+1 speed The engine meets the min. EURO 6 standards Engine working volume: 2800 – 3000 cm <sup>3</sup> Engine power: minimum 115 kW Braking system: ABS, ASR, ESP, discs on the front and rear axle Suspension: mechanical on the front and rear axle Steering wheel on the left side, adjustable, servo Tool, jack, wheel chocks Coded key to start the vehicle Electric adjustment and heating of rearview mirrors Central lock Color: white			

	<p><b>RESERVOIR:</b>  Cylindrical tank.  The tank is made of high-quality sheet metal ST52-3 or equivalent.  Tank sheet thickness minimum 5 mm  Tank capacity min. 3500 liters divided into two parts  Front part with a volume of min. 1,500 liters for clean water  Rear part min 2,000 liters for sludge and sewage content  Place the entire tank at an angle of 3° in relation to the chassis  On the upper part of the tank of the fecal part, install a revision hole min. diameter Ø 500mm  At the back of the tank, place a door for cleaning sediment with a diameter of min.Ø 500mm  Equip the opening for suction and discharge of pulpy material with a ball valve min. DN80 – on the cleaning door  Protect the inside of the tank with an anti-corrosion coating  Mount breakwaters in the tank that prevent water ripples during transport  The auxiliary frame should be made of U profile and according to the instructions of the chassis/undercarriage manufacturer  All external steel surfaces of the tank and auxiliary chassis shall be sandblasted, thoroughly painted and finally varnished in the color desired by the customer.  In the part where there is clean water, install an overflow pipe for venting min 2".  Provide visual control of the liquid level.  Ensure that the tank is filled with clean water through a special hydrant coupling located in the middle of the tank min. type C, DN 52.  Automatic switch-off of the pump in the event of a lack of water.  Place a warning orange rotating light on the rear of the vehicle.  On the sides of the tank, install boxes for housing equipment.</p>			
	<p><b>VACUUM PUMP:</b>  Minimum capacity 10,400 l/min  Air cooling of the vacuum pump  Maximum vacuum min. 95%,  Maximum over pressure min. 2 bars.</p>			

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	Vacuum pump drive: hydraulic motor The vacuum system consists of the following parts: Ball level limiter, Precipitator, Suction filter, Suction muffler, Safety valve - pressure, Safety valve - vacuum, Exhaust muffler.			
	<b>HIGH PRESSURE PUMP:</b> Minimum pressure 150 bar. Minimum flow 91 lit/min Alarm in low water conditions to prevent the pump from running dry Water filter in front of the pump High pressure glycerine pressure gauge, frost resistant Rear hose reel with hose diameter 3/4", length min. 80 m, maximum working pressure min. 250 bar, hydraulic winding. Equip the high-pressure pump with a suction filter, a safety valve and a working valve.			
	<b>COMMANDS IN THE CABIN:</b> Turning on the rotating light Vacuum pump and high pressure pump operating hour's meters Start-stop for the high pressure pump and for the vacuum pump			
	<b>CONTROL BOX REAR RIGHT SIDE:</b> Command for turning on the pumps Low water alarm light. Working hours counter Emergency shutdown. High pressure gauge, Switching the high pressure pump on/off Switching the vacuum pump on/off Minimum water level indicator with alarm warning			

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	<p><b>EQUIPMENT AND DOCUMENTATION THAT SHOULD BE DELIVERED WITH THE VEHICLE:</b></p> <ul style="list-style-type: none"> <li>Clutch key ABC -1 pc</li> <li>Hydrant hose for filling the cistern - 1 pc</li> <li>Gun with nozzle for washing</li> <li>Channel nozzle for general cleaning of concrete pipes ¾"</li> <li>Suction hose DN 80 x3 m - 4 pcs</li> <li>Metal extension with coupling 1.5 m - 1 pc</li> <li>When delivering the superstructure, the instructions for maintenance and handling of the superstructure and the catalog of spare parts must be delivered in Serbian</li> <li>Certificate of compliance of the complete vehicle with superstructure with the Road Traffic Safety Act</li> <li>Warranty booklets</li> <li>User manuals and spare parts catalogs</li> <li>Operator training</li> <li>All necessary documentation that the customer needs for registration.</li> </ul>			