**SUPPLIER CONSULTATION APPLICATION**

*Supply and maintenance of a truck equipped with hydraulic crane and tram wheels*

Deadline for submission of the application: [date] [month] 2023

**1.** Participant in the supplier consultation:

**1.1.** Information about the participant in the supplier consultation.

|  |  |
| --- | --- |
| **Firm name of the company** |  |
| **Registration number** |  |

**1.2.** Contact person of the participant in the supplier consultation.

|  |  |
| --- | --- |
| **Name, surname** |  |
| **Position held** |  |
| **Telephone number** |  |
| **Electronic mail address** |  |

hereinafter – the participant

**2.** General information about the participant

**2.1.**Is the participant interested in participating in the procurement procedure:

Yes;

 No;

No, because the market research participant is unable to meet the following requirement of the technical specification: \_\_\_\_\_\_.

**2.2.** The participant has reviewed the technical specification and acknowledges that it is able to perform it in due quality and in line with the requirements:

 Yes;

 No.

**2.3.** The participant considers the technical specification to be:

 feasible;

 subject to enhancement:

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| *If you have checked that the technical specification is to be enhanced, please specify what exactly needs to be enhanced or what information is not clear in order to prepare the tender.*  *We encourage you to ask any unclear questions prior to submission of your application.* |

**2.4.**Information about the participant's experience. Please inform about the experience of the participant in fulfilling similar supplies.

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| --- | --- | --- | --- |
| **No.** | **Customer (contact person of the customer)** | **Supply, description and scope thereof** | **Total contractual price** |
| **1.** | [firm name] | [answer] | [amount] |
| **2.** | [firm name] | [answer] | [amount] |

**3.**Requirements and informative offer.

**3.1.** Informative technical tender of the market research participant.

|  |  |  |
| --- | --- | --- |
| **No.** | Technical specification / Requirements | Technical tender (minor variations possible\*) |
| **1** | **Vehicle engine** |  |
| 1.1 | Diesel engine |  |
| 1.2 | The nominal power of the engine is not less than 300 kW |  |
| 1.3 | Euro VI emission standard |  |
| 1.4 | Automatic gearbox |  |
| **2** | **Technical data of the vehicle** |  |
| 2.1 | Vehicle type – Specialised emergency vehicle |  |
| 2.2 | Length: up to 9600 mm max |  |
| 2.3 | Width (without mirrors): up to 2500 mm max |  |
| 2.4 | Vehicle cabin height: up to 3400 mm maximum |  |
| 2.5 | Total height including lifting mechanism: up to 4000 mm max |  |
| 2.6 | Max speed: 85 km/h |  |
| 2.7 | In case of emergency, the vehicle must be able to tow tramcars, while driving on rails |  |
| 2.8 | The vehicle is equipped with a set of wheels for driving on rails |  |
| 2.9 | The vehicle is equipped with **two stationary mounted hydraulic winches** at the rear and with a pulling force of min 15 t and a rope of not less than 60 m. Winch is protected in a special protective box. |  |
| **3** | **Chassis** |  |
| 3.1 | The used tire wheel arrangement must not impede driving on rails with its width on a separate rail track and must ensure that the rails can be used by nearside island platform trams located in the distance of 1524 mm from the centre of the rail track with the rail height of 180 mm |  |
| 3.2 | The vehicle is adapted for vehicle towing |  |
| 3.3 | 6x2 axle drive, air suspension |  |
| 3.4 | Suspension system designed for permanent maximum permissible mass load |  |
| 3.5 | Vehicle suspension endures the maximum permissible mass load without damage under the intended operating conditions (including pavement with rails) |  |
| 3.6 | Clearance and the lowest part of the vehicle is at least 200 mm, with the possibility of temporary increase of at least 100 mm (front and rear suspension to lift the entire chassis frame), |  |
| 3.7 | The vehicle must be able to drive up a track with an elevation of up to 6% with equipment designed for driving on rails. |  |
| 3.8 | Wheel disks: steel |  |
| 3.9 | Tires adapted to GVW |  |
| 3.10 | Front mudguards – plastic |  |
| 3.11 | Rear mudguards – stainless steel |  |
| **4** | **Steering wheel** |  |
| 4.1 | Left-side |  |
| 4.2 | Hydraulic steering booster |  |
| 4.3 | Steering column adjustment at least in 1 position |  |
| **5** | **Brake system** |  |
| 5.1 | Braking system as required for the installation of the equipment |  |
| 5.2 | In accordance with the applicable laws and regulations of the Republic of Latvia |  |
| **6** | **Fuel system** |  |
| 6.1 | Tank volume for driving in the city of at least 400 km without refuelling |  |
| 6.2 | Lockable fuel tank cap |  |
| 6.3 | Fuel filter: heated |  |
| 6.4 | Fuel filter with water separator |  |
| 6.5 | AdBlu tank with a capacity of at least 35 l and equipped with a heating system |  |
| 6.6 | AdBlu fuel tank cap with a lockable key |  |
| **7** | **Exhaust system** |  |
| 7.1 | Exhaust muffler: according to the manufacturer's requirements for the desired type of chassis |  |
| 7.2 | In accordance with the laws and regulations in force in the Republic of Latvia |  |
| **8** | **Electric wiring and lighting** |  |
| 8.1 | Electric wiring 24 V |  |
| 8.2 | Accumulator units: 2 pieces x 225Ah |  |
| 8.3 | Assembly must ensure uninterrupted operation of the installed electrical equipment during emergency works, being operated from the internal combustion engine |  |
| 8.4 | Vehicle lighting in accordance with the laws and regulations in force in the territory of the Republic of Latvia |  |
| 8.5 | All lighting is manufactured using LED technologies |  |
| 8.6 | The lamp range is adjustable according to the load, manual adjustment is allowed |  |
| 8.7 | Daytime running lamps |  |
| 8.8 | Front and rear fog lamps |  |
| 8.9 | End outline position lamps |  |
| 8.10 | Stop lamps |  |
| 8.11 | Direction indicators |  |
| 8.12 | Headlamp and rear lamp guard with metal grid |  |
| 8.13 | Warning lights indicating that it is an emergency vehicle in traffic (in accordance with the laws and regulations in force) installed on the roof of the cabin and on the vehicle engine hood (bonnet), as well as on the rear of the vehicle |  |
| 8.14 | Emergency vehicle siren is installed in such a place that it does not adversely affect the crew of the vehicle |  |
| 8.15 | Reversing lamp with integrated warning signal that switches on automatically when reversing |  |
| 8.16 | The vehicle is equipped with lighting for illuminating the working area (front, rear and side) in LED technology, white, with a power of min 30W / 3000lm, adjustable in horizontal and vertical plane |  |
| 8.17 | Suitable electrical wiring for left and right side connection of trailers and buses (sockets: round, 15-pin, 24 V (ISO 12098) with transition to 2x7-pin (ISO 1185 and 3731); round, 13-pin, 12V (ISO 11446); round , 7-pin, 12 V (ISO 1724)) |  |
| **9** | **Cabin** |  |
| 9.1 | Cabin type: 2-door, 3 seats |  |
| 9.2 | Cabin suspension: pneumatic |  |
| 9.3 | Cabin is manufactured of corrosion-resistant materials |  |
| 9.4 | Cabin is equipped with rear windows ensuring visibility to the rear of the vehicle |  |
| 9.5 | Information panel with all the necessary equipment adapted to the ergonomic work of the driver |  |
| 9.6 | Electrically operated and heated outer mirrors |  |
| 9.7 | Right and left wide-angle mirrors |  |
| 9.8 | Side mirror |  |
| 9.9 | Front mirror |  |
| 9.10 | Windscreen and side lens guards on the side of the driver and front passenger |  |
| 9.11 | The side mirrors equipped with movement (folding) stops in relation to the side door glass. |  |
| 9.12 | Additional lamps located under the mirrors on each side to ensure additional visibility during performance of reverse maneuver (separate switch). |  |
| 9.13 | Electrically operated window lifts |  |
| 9.14 | Driver’s seat: Heated with air suspension with armrest |  |
| 9.14 | Hydraulic cabin tilting for maintenance |  |
| 9.15 | Cabin colour: Emergency vehicle |  |
| 9.16 | LED cabin lighting |  |
| 9.17 | Driver and passenger entry lighting in LED technology |  |
| 9.18 | At least 2 reading lights, one of which is for the driver with LED technology |  |
| 9.19 | Comfort seat with air suspension, equipped with safety belts and headrests, adjustment: up - down, front and back |  |
| 9.20 | Seats for at least 2 passengers, equipped with safety belts |  |
| 9.21 | Air conditioner or climate control |  |
| 9.22 | Dry-type autonomous cabin heating |  |
| 9.23 | Rain sensor |  |
| 9.24 | Electric windscreen washer |  |
| 9.25 | Additional functions - USB and Bluetooth connectivity for multimedia stereo system |  |
| 9.26 | On-board computer indications and information on the display and indicators in English or Latvian |  |
| 9.27 | Digital tachograph |  |
| 9.28 | Monitor for displaying images from cameras when setting up the vehicle for work on rails and reversing cameras |  |
| 9.29 | Reversing cameras |  |
| 9.30 | Reverse-view camera with all the necessary communications up to the display in the cabin. At least IP44 class protection |  |
| 9.31 | 360° degree camera |  |
| **10** | **Rail track set** |  |
| 10.1 | Hydrostatic drive set with a driving speed of at least 10 km/h |  |
| 10.2 | Equipped with the rail driving set |  |
| 10.3 | Adapted to 1,524 mm wide rail tracks and allows turning maneuver with the minimum radius of 20 m and a high ground of up to 6% |  |
| 10.4 | Replaceable rail wheel discs |  |
| 10.5 | Two-axle, pivoting, 4-wheel rear bogie |  |
| 10.6 | Bogie operation control on rails from the driver's cabin |  |
| 10.7 | Cameras for monitoring bogie positioning for work on rails |  |
| 10.8 | Rolling stock equipped with parking brake, with spring, operates without pressure in the system (with emergency braking) |  |
| 10.9 | Lifting and lowering of hydraulic bogie with the emergency lifting option (when the vehicle engine is not running) |  |
| 10.10 | The profile of the tram wheels adapted to the rails used by the Customer |  |
| **11** | **Crane requirements** |  |
| 11.1 | HDS-type rotating jib crane with at least two horizontal hydraulically broken control levers |  |
| 11.2 | A crane mounted on a telescopic boom platform, hydraulically extendable, with the possibility of changing in the vertical plane |  |
| 11.3 | The crane is installed at the rear of the vehicle platform |  |
| 11.4 | The crane must be designed in such a way that it is possible to place the crane traverse in the space between the tram car and the overhead contact line at the height of the network cable suspension, at least 4.2 m |  |
| 11.5 | The crane can be operated by proportional hydraulic simultaneous control in the horizontal and vertical planes |  |
| 11.6 | The boom in transportation position faces the front of the vehicle when folded, supported directly behind the driver's cabin |  |
| 11.7 | Crane equipped with a device that allows placing it and its supports in the transportation position in the event of engine failure |  |
| 11.8 | Crane equipped with a switch for removing overload alarm; blocks sound/light signal overloads |  |
| 11.9 | Crane intended for loading and unloading with its own boom, for example, emergency carriage used to tow tram cars |  |
| **12** | **Technical parameters of the crane** |  |
| 12.1 | Lifting capacity when reaching 4.2 m – at least 22 t |  |
| 12.2 | Lifting capacity when reaching 9 m – at least 10 t |  |
| 12.3 | Rotation angle with load ensuring stable operation within the range of 240° |  |
| 12.4 | Rotation angle without load 360° |  |
| **13** | **Support** |  |
| 13.1 | Front and rear legs fastened to the frame of the base vehicle. It is allowed to use integrated support legs with a crane base sequentially fastened to the frame of the base vehicle. |  |
| 13.2 | The support extension mechanism must ensure its quick and simultaneous operation (except for the manual method). |  |
| 13.3 | Folding/unfolding of the supports must be performed without forced intervention of the operator |  |
| 13.4 | The time of support installation may not exceed 5 minutes |  |
| **14** | **Crane traverse** |  |
| 14.1 | Adapted for lifting the middle elements of tram sets with a minimum carrying capacity of 19 t |  |
| 14.2 | A specially designed place for placing the traverse on the truck |  |
| 14.3 | The functionality and dimensions of the traverse must be coordinated with the Customer (external pins must be designed in such a way that they can be easily removed without the use of tools). |  |
| **15** | **Crane control** |  |
| 15.1 | The crane must be controlled remotely using the manipulator console, as well as manually from the crane |  |
| 15.2 | The control panel mounted on the drive will be positioned so as to provide maximum visibility of the working area |  |
| 15.3 | Vehicle without a crane operator's cabin |  |
| **16** | **Additional requirements** |  |
| 16.1 | Emergency equipment transportation boxes (ropes, slings, crossbeams) are illuminated – details must be coordinated with the Customer |  |
| 16.2 | The storage box must be equipped with a cover |  |
| 16.3 | Additional lockable tool boxes – details must be coordinated with the Customer |  |
| 16.4 | Special traverse for short hanging on a hook and operation boom in the space below the overhead contact line |  |
| 16.5 | The hook must be protected against self-detachment of suspended objects |  |
| 16.6 | Tram car lifting belts manufactured as loop slings in a closed chain with a carrying capacity of 10 tons and the length of 3 m, 4 pcs. |  |
| 16.7 | Belts for lifting tram cars manufactured as loop slings in a closed chain with a carrying capacity of 10 tons and the length of 3.4 m, 4 pcs. |  |
| 16.8 | Interior rubber floor mats |  |
| 16.9 | Warning triangle |  |
| 16.10 | First aid kit |  |
| 16.11 | Fire extinguisher 6 kg 2 pcs. + 2 kg 1 pc. |  |
| 16.12 | Full size spare wheel with 1 piece tire |  |
| 16.13 | Wedges under the wheels 2 pcs |  |
| 16.14 | Hydraulic jack for changing wheels |  |
| 16.15 | Tools necessary for driving and maintenance of the vehicle |  |
| **17** | **Coupling** |  |
| 17.1 | The coupling device at the rear of the vehicle is designed to tow at least 22 000 kg |  |
| 17.2 | Left and right side of suitable power supply utilities for connecting the electrical wiring of the specified trailers and busses (sockets: round, 15-pin, 24 V (ISO 12098) with transition to 2x7-pin (ISO 1185 and 3731); round, 13-pin, 12V (ISO 11446); round , 7-pin, 12 V (ISO 1724)) |  |
| 17.3 | Assembled with two-piece rigid coupling (22 000 kg) and safety cable. |  |
| 17.4 | Pneumatic outlets on the left and right. |  |
| 17.5 | On the left side, the length of the air pressure pipe coil at least 10 m. |  |
| 17.6 | There are separate fixtures provided on the vehicle for placing the coupling |  |
| **18** | **Warranty, maintenance and repairs** |  |
| 18.1 | The Contractor provides a warranty of at least 3 years for all crane elements |  |
| 18.2 | Chassis warranty not less than 3 years |  |
| 18.3 | The warranty period of the crane starts to run from the moment of final acceptance of the vehicle |  |
| 18.4 | The warranty period will be extended each time by the time from the day of notification of defects to the day when the Customer signs the crane acceptance report after repair |  |
| 18.5 | All constructions where corrosion is likely to form must have an anti-corrosion protective coating with at least 10-year warranty |  |
| 18.6 | The place of supply and acceptance – in Riga, not more than 20 km from the border of the administrative territory of Riga |  |
| 18.7 | Repair and maintenance (of the chassis and equipment) must be ensured during the during the warranty period (planned annual mileage – 10 000 km) |  |
| 18.8 | Warranty maintenance and repair services at the service centre in Riga or not more than 20 km from the border of the administrative territory of Riga |  |
| **19** | **Customer staff training** |  |
| 19.1 | The Contractor at its own expense ensures the training of: at least 8 technical employees specified by the Customer in the field of vehicle operation and the offered vehicle equipment and repair; Training venue: Riga |  |
| 19.2 | Training in the use of the entire vehicle and the equipment installed on it. Up to 10 trainees. Place of training to be agreed upon |  |
| **20** | **Technical documentation** |  |
| 20.1 | The contractor at its own expense provides the Customer with technical documentation of the offered vehicle (in Latvian): 1 counterpart in a paper form and 1 counterpart in electronic form. |  |
| 20.2 | Factory instructions for proper vehicle operation |  |
| 20.3 | Factory instructions for proper crane device operation |  |
| 20.4 | Vehicle and lifting equipment repair instructions |  |
| 20.5 | Electrical and hydraulic wiring diagrams of the vehicle |  |
| 20.6 | Schedule of maintenance works |  |
| 20.7 | A list of auxiliary materials (oils, lubricants, low hardening system liquid cooling, etc.) used for the first factory refuelling of the vehicle systems |  |
| 20.8 | Spare parts catalogue |  |
| 20.9 | Manuals for the use, inspection and maintenance of accessories |  |
| **21** | **Manufacture coordination stages** |  |
| 21.1 | In electronic form, sketches of the vehicle chassis, cabin and special bodywork are reviewed. |  |
| 21.2 | Coordination of the built and fully assembled vehicle in the factory, if necessary. |  |
| **21** | **Subject of the Agreement** |  |
| 21.1 | Period of supply – up to 18 months |  |
| 21.2 | A two-way vehicle equipped with a crane conforming to EN 12999 and having at least two horizontal, hydraulic hinges |  |
| **22** | **Other requirements** |  |
| 22.1 | The technical emergency vehicle must comply with the requirements of LVS 63:2021 “Emergency Vehicles, Paintwork, Equipment”. |  |
| 22.2 | The vehicle must not be a prototype |  |
| 22.3 | Latvian State Standard (LVS) 63:2021 "Emergency Vehicles, Paintwork, Equipment" |  |
| 22.4 | Cabinet Regulation No. 295 adopted 30 May 2017 “Regulations Regarding State Technical Roadside Inspection and Technical Control of Vehicles” |  |
| **23** | **Manufacturer** |  |
| 23.1 | Vehicle make and model, country of origin |  |
| 23.2 | Tram bogie make and model, country of origin |  |
| 23.3 | Crane make and model, country of origin |  |
| 23.4 | Country of origin of winches |  |
| **24** | **Manufacture coordination steps** |  |
| 24.1 | 1. In electronic form, the sketches of the chassis, cabin and special bodywork of the vehicle are reviewed |  |
| 24.2 | 2. Coordination of the built and fully assembled vehicle in the factory, if necessary |  |
| **25** | **Quantity and price** |  |
| 25.1 | One new truck equipped with a hydraulic crane and tram wheels |  |
| 25.2 | Price in EUR without VAT per one truck equipped with hydraulic crane and tram wheels |  |
| *\* The tenderer is entitled to offer a vehicle whose technical parameters differ from the Customer's requirements by up to 5%, if they are expressed in values, or the equivalent offered by the tenderer meets the requirements of the Customer in terms of functionality.* | | |

**3.2.** Delivery term from the day of the order, separately outlining the term of production: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**3.3.**Information about the preliminary offer of maintenance during the warranty period.

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| --- | --- | --- | --- |
|  | **Maintenance frequency (period of time or kilometres)** | **The fee of one maintenance session** **in euros** **without VAT (including raw materials)** | **Basic works included in the maintenance (please list)** |
| Cargo vehicle according to Clause 3.1 of the market research application. |  |  | 1. … 2. … 3. … |

**3.4.** Other information about the maintenance.

**3.4.1.** Is the tenderer able to offer a constant fee for one maintenance session (including raw materials):

 Yes;

 No.

If the tenderer were able to offer a constant fee for one maintenance session (including raw materials), please offer a possible mechanism for revision of the fee for one maintenance session:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**3.4.2.** Place of performance of maintenance: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**3.5.**Preferred manner of payment:

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| *Please indicate what would be the recommended manner of payment within the scope of the contract, taking into account that  prepayment is not possible.* |

**3.6.**Other conditions ensuring the validity of the price of the tender:

|  |
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| *Please indicate other tender conditions, if any, that the Customer must take into account for the tender to be valid at the indicated price.* |