**TECHNICAL SPECIFICATION**

**(PU-14575/25) [ITP25] Spreading and cleaning equipment**

1. **CONCEPTS AND ABBREVIATIONS**

**1.1. Purchaser** – AB Kelių priežiūra.

**1.2. Supplier** – an economic entity – a natural person, private legal entity, public legal entity, other organizations and their divisions, or a group of such persons with whom the Purchaser enters into a Contract.

1.3. **Contract** – a contract concluded between the Supplier and the Purchaser regarding the Subject of the Procurement.

1.4. Name of the Subject of the Procurement – **Snow plow and spreader** (hereinafter – the **Goods/Item** or the **Equipment**)

*and*

**Services** – Warranty technical service recommended by the manufacturer of snow plow and spreader offered by the Supplier.

1. **PROCUREMENT SUBJECT**
   1. The object of the procurement is divided into procurement parts.
   2. Subject of the Procurement:

**Goods:**

* + 1. First part of the Procurement – **Snow plow** for N3-class truck tractor (1 set).
    2. Second part of the Procurement - **Spreader** for N3-class truck tractor (1 set).

**Services:**

* + 1. First part of the Procurement - **Snow plow** warranty technical service recommended by the manufacturer of snow plow and offered by the Supplier (1 set).
    2. Second part of the Procurement - **Spreader** warranty technical service recommended by the manufacturer of spreader and offered by the Supplier (1 set).

**3. REQUIREMENTS OF THE SUBJECT OF THE PROCUREMENT**

* 1. The Goods must comply with the technical requirements set out in the annexes to these Technical Specifications.
  2. Additional requirements :
     1. The Supplier must be an official representative of the manufacturer of the offered Product (if not the manufacturer), who has the right to perform technical maintenance and repair of the offered Product during the warranty period or have concluded an agreement for the provision of relevant services with another sub-supplier having such a right. An authorization from the manufacturer of the offered Product or another document confirming the Supplier’s right to perform technical maintenance and repair services during the warranty period must be submitted or evidence of a concluded agreement for the provision of relevant services with another sub-supplier having such a right must be submitted (with the offer).
     2. The following documents must be submitted together with the Goods (no later than the date of delivery of the Goods): operating and safety instructions in Lithuanian or English languages, electrical and hydraulic system diagrams, spare parts catalogues, and EC declarations of conformity for the spreader and snow plow.
     3. The Goods offered must be covered by a full warranty of at least 24 months, calculated from the moment of delivery and acceptance of the Goods, with mobile service at the Purchaser’s premises, together with the manufacturer’s approvals submitted with the offer. Technical maintenance and/or repair work must be performed no later than within 3 working days of the Service being ordered by email and telephone call to the Supplier’s responsible person specified in the Contract, after the Parties have discussed the location of the Goods and the scope of the Services. The Supplier shall provide free repairs during the warranty period for warranty faults or defects at the Purchaser’s premises.
     4. Minor repairs (e.g. diagnostic CAN connections, troubleshooting of electrical installations, etc.) must be performed by the Supplier within 2 business days, and major repairs no later than 3 business days from the date of ordering the Service by e-mail and telephone call to the Supplier’s responsible person specified in the Agreement or by the Purchaser authorizing (a power of attorney issued by the manufacturer of the Goods is provided) minor repairs to be performed by qualified employees of the Purchaser, and the costs of the work are compensated in accordance with the conditions provided for in the Agreement. For justified reasons, the term for the provision of Services may be extended and determined by a separate written agreement between the Purchaser and the Supplier.
     5. During the warranty period, all mandatory maintenance of snow removal equipment and salt spreading equipment must be detailed and submitted together with the offer, specifying the scope of each maintenance service, and the offer must specify the costs for the entire warranty period.
  3. The Supplier must be able to perform technical service in the Purchaser’s territories when mobile workshops arrive, and the work does not require specific equipment and/or facilities.
  4. Upon delivery of the Goods, but no later than when the Purchaser begins to use the Goods or part of the Goods set, the Supplier must provide the following training, the cost of which must be included in the price of the offer:

-theoretical and practical training for operators to ensure the correct operation of the Goods.

-theoretical and practical training on the proper and correct installation and dismantling of the equipment and the preservation of dismantled equipment.

-technical training to ensure the correct maintenance of the Goods, explaining the nature of faults and fault symbols.

**4.PROCEDURE AND TERM OF FULFILMENT OF CONTRACTUAL OBLIGATIONS:**

* 1. The Supplier must deliver the Goods mounted on a truck to the Purchaser’s road service location, where the Goods will be operated.

**Delivery address:**

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| **Part of the Procurement** | **Delivery address** | **Quantity** |
| 1 | Tilžės g. 54, Klaipėda | 1 set. |
| 2 | Tilžės g. 54, Klaipėda | 1 set. |

**4.2.** The Goods must be delivered no later than 200 calendar days from the date of entry into force of the Agreement.

**4.3. The Purchaser seeks to ensure that its and the Supplier‘s actions have as little impact on the environment as possible, therefore:**

**4.3.1. During the public procurement and contract performance, communication between the Supplier and the Purchaser shall be carried out only by electronic means (CPP IS means, telephone, e-mail, etc.);**

**4.3.2. All documentation related to the performance of the Contract shall be provided to the Purchaser and the Supplier by electronic means (e-mail, etc.);**

**4.3.3. The Contract shall be signed only by electronic means (electronic signature).**

**4.3.4. The Supplier shall undertake to reduce paper consumption, refrain from unnecessary copying and printing of documents, and if office supplies are used, they must be made from recycled raw materials or suitable for recycling.**

**4.3.5. The product (set) must meet the following requirements:**

**4.3.5.1. The product is robust, durable, functional, and its components are suitable for repeated use and/or easy repair and/or replacement.**

**4.3.5.2. A product that has become waste is suitable for reuse or recycling.**

1. **ANNEXES:**

Annex 1 – Technical parameters

*\_\_\_\_\_\_\_\_\_\_*

*All references in the procurement document to a standard, technical certificate or general technical specifications mean that the contracting authority will accept evidence of equivalent measures from other participants. If the specification refers to a specific model or source of supply, a specific process characteristic of the Goods or services supplied by a particular supplier, or a trademark, patent, types, specific origin or production, which would give certain entities or certain products an advantage or lead to their rejection, an equivalent object to that specified may be submitted. If an equivalent object is offered, the supplier undertakes to submit/justify/prove its equivalence to the object specified in the document.*

Annex 1

**MANDATORY TECHNICAL REQUIREMENTS**

***The following must be submitted:***

***Technical documentation from the manufacturer of the Goods/Equipment (catalogues, brochures) and/or declarations from the manufacturer of the Goods/Equipment (if the manufacturer's technical documentation does not fully reflect the compliance of the proposed Goods/Equipment with the technical specifications) and other documents specified in the technical specifications or other equivalent documents proving the compliance of the proposed Goods/Equipment with the technical specifications. equipment to the technical specification requirements) and other documents specified in the technical specification or other equivalent documents proving the compliance of the proposed goods/equipment with the technical requirements. In these documents, the Supplier must indicate (i.e., clearly mark – in color and/or with arrows, and/or underlined, etc.) the specific locations in the documents provided where the required technical characteristics are described and indicate which point of the technical requirements they comply with.***

***The Supplier's declaration shall not be considered equivalent documentation, except in cases where the Supplier is the official representative of the manufacturer of the proposed Goods/Equipment.***

***In the event that the Supplier (who is not the manufacturer) submits technical documentation and/or declarations prepared by representatives of the manufacturer who have the relevant rights, the Supplier must also submit documents proving the relevant rights of the manufacturer's representative together with the offer (authorization granted by the manufacturer of the Goods/Equipment to prepare/approve technical documentation for the Goods/Equipment).***

***If the technical documentation for the Goods/Equipment is prepared by a Supplier who is not the manufacturer and who has not been granted the manufacturer's authorization to prepare/approve technical documentation, in such a case the technical documentation prepared by the Supplier itself does not meet the criteria of objectivity, reliability, traceability of information, and other criteria, therefore, during the evaluation of the tender, the Purchaser will consider that the Supplier has only provided declarative information that is not substantiated by objective data and will reject such a tender.***

***Documents (technical documentation of the manufacturer of the Goods/Equipment (catalogues, brochures) and/or declarations by the manufacturer of the Goods/Equipment or other equivalent documents proving that the proposed Goods/Equipment comply with the technical characteristics) may be submitted in Lithuanian and/or English. When evaluating the Suppliers' offers and at the Buyer's request, the Suppliers shall be required to submit the specified documents or parts thereof, translated into Lithuanian, and a confirmation of the translation.***

***All specified specific materials, solutions and/or specific names or standards of Goods/Equipment are subject to the term "or equivalent". A Supplier offering Goods/ Equipment with equivalent characteristics must additionally indicate this in the technical specification and/or offer and prove by reliable means that the offered Goods/Equipment are equivalent and fully comply with the requirements set out in the technical specification.***

Part 1 of purchase. Snow plow for N3 class truck - saddle tractor

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| Ser. No | Name of characteristics | Characteristics required by the Purchaser | **The supplier must confirm compliance with the technical requirement by indicating: yes/no and, where required, enter the exact value of the Item offered.**  ***Where required, the Supplier must enter the name of the document proving the values of the parameters provided, confirming the proposed parameters.*** |
| **FRONT SNOW PLOW** | | | |
| 1.1. | Purpose/application (brand) | The snow plow is designed to clear snow to both the right and left sides. It can work when clearing snow while the truck is moving at speeds from 0 - 60 km/h and higher.  Snow plow with electro-hydraulic power unit. | ***The exact model of the front snow plow \_\_\_\_\_\_\_\_\_.***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.2. | Type of snow plow | Solid snow plow.  **Additional economic efficiency points are awarded for** : consisting of 4 or more sections. The segments of the plow, together with the cleaning elements, move (shift during snow removal) up/down independently of each other. | ***Proposed parameter:***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.3. | Frame type | Snow plow frame is C shaped (example in the photo below) | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.4. | Protection against snow thrown on the cabin | A canopy made of rigid plastic, rubber, or equivalent rigid material is mounted on a snow plow to protect the windshield from snow thrown from under the snow plow.    **Additional economic efficiency points are awarded for:**  A canopy made of rigid plastic, rubber, or equivalent rigid material is mounted on a snow plow to protect the windshield from snow thrown from under the snow plow.An additional canopy made of tarpaulin or equivalent material is installed on the upper part of the snow plow, on an additional frame, at least 3/4 of the length of the snow plow, to prevent the snow being swept from getting onto the windshield, on the front grille of the cabin. | ***Proposed parameter:***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.5. | Snow plow frame | Made of metal (metal primed and painted). | **Yes/No *(delete as appropriate).*** |
| 1.6. | Surface painting | The surface is primed and painted. The painting process of metal surfaces must be carried out in accordance with the requirements of the ISO 8501-1 standard. The thickness of the coating layer is at least 180 µm. | **Yes/No *(delete as appropriate).*** |
| 1.7. | Quick connection and activation system for the snow plow electrical system. | There must be electrical connections (in the front, outside the cab, on/under the truck bumper). | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.8. | Control | Lowering, lifting, and turning left/right are performed from the driver's cabin, using a control panel located within easy reach of the driver. | **Yes/No *(delete as appropriate).*** |
| 1.9. | Installation | The installation is performed on the truck tractor’s already installed DIN 76060 “A” type mounting plate. The snow plow mounting system must comply with the requirements of this plate and be compatible with installation on such a front-mounted auxiliary equipment | **Yes/No *(delete as appropriate).*** |
| 1.10. | Cleaning elements (knives) | Combined cleaning elements, fastened with screws. Cross-sectional layers of the working part of the cleaning elements: special wear-resistant steel, rubber, metal-ceramic elements in rubber, wear-resistant steel.  The thickness of the working part is at least 36 mm. | **Yes/No *(delete as appropriate).*** |
| 1.11. | Lowering/raising the snow plow to/from the road surface | Hydraulically operated. | **Yes/No *(delete as appropriate).*** |
| 1.12. | Snow plow hydraulic Functions | Lifting, forced lowering, "floating" position, left/right rotation, "Relief" position (reduced pressing function) | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.13. | Work control data | The snow plow control panel has a connection for reading work control (cleaning process) data. The service provider installing the transport control system is given access and the opportunity to connect to the control panel by providing the necessary login codes. | **Yes/No *(delete as appropriate).*** |
| 1.14. | Snow plow length | Total length no less than 3600 mm. | **Yes/No *(delete as appropriate).***  ***Proposed parameter: \_\_\_\_\_\_\_\_ mm***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.15. | Width of the cleaned section, with a rotation of at least 30°. | Width of the cleaned section, with a rotation of at least 30° no less than 3000 mm | **Yes/No *(delete as appropriate).***  ***Proposed parameter: \_\_\_\_\_\_\_\_ mm***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.16. | Snow plow rotation | It is carried out in both directions by hydraulic cylinders, at an angle of at least 30 o | **Yes/No *(delete as appropriate).***  ***Rotation angle: \_\_\_\_\_\_\_\_***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.17. | Snow plow height | 900-1400 mm, including cleaning elements and a canopy of rigid material (polymer or equivalent), but excluding an additional canopy on an additional frame | **Yes/No *(delete as appropriate).***  ***Proposed parameter: \_\_\_\_\_\_\_\_ mm***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.18. | Snow plow marking, lighting | Warning flag No. 1, lighting - two-way lights No. 2, reflectors No. 3, marker lights No. 4  Regardless of the wiper operating position (width of the cleaned section), marker lights must be installed so as to mark the outer corners of the wiper.  The protection of the lights against the ingress of solid objects and liquids is at least IP65. | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.19. | Shock absorption and obstacle protection mechanism | Compensating for unexpected pressure increases in the hydraulic system due to an obstacle or impact. | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.20. | Angle of attack | The angle of inclination of the wiper cleaning edge-knife is from 7 o to 10 o relative to the vertical plane. | **Yes/No *(delete as appropriate).***  ***Attack angle: \_\_\_\_\_\_\_\_***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.21. | Snow plow weight | No more than 1900 kg | **Yes/No *(delete as appropriate).***  ***Weight: \_\_\_\_\_\_\_\_kg***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.22. | Surface copying supports | The snow plow is equipped with support wheels with adjustable height, pneumatic or solid rubber or other polymer tires, and mudguards on the top and rear. | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 1.23 | Storage legs | Must be provided with the product.  Storage legs with wheels, allowing you to change and adjust the storage position of the snow plow without using additional self-propelled lifting mechanisms. | **Yes/No *(delete as appropriate).*** |
| 1.24 | Snowplow manufacturer, installer | Snow removal equipment must be manufactured and, together with other additional required equipment, installed/installed on the vehicle at the company of the manufacturer of this equipment or by the official representative of the equipment (in that case, documents or copies of documents confirming the representation must be submitted with the offer). Responsibility for the flawless operation of the entire equipment complex and the elimination of all defects revealed during operation lies with the manufacturer of this equipment or its official representative who installed the equipment complex. | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |

2 part of purchase. Spreader for N3 class truck - saddle tractor

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| Ser. No | | Name of characteristics | | Characteristics required by the Purchaser | **The supplier must confirm compliance with the technical requirement by indicating: yes/no and, where required, enter the exact value of the Item offered.**  ***Where required, the Supplier must enter the name of the document proving the values of the parameters provided, confirming the proposed parameters.*** | |
| **Spreader** | | | | | | |
| 2.1. | Purpose, type, make | | The spreader is adapted to a N3-class truck tractor on an additional frame. The frame must be proposed, manufactured, and installed by the Supplier.  Designed for spreading, with or without moistening, salt, sand, fine crushed stone. The spreader has a hydraulic power unit, driven by the rear wheel of the vehicle. | | | **Yes/No *(delete as appropriate).***  ***Spreader make and model: \_\_\_\_\_\_\_\_*** |
| 2.2. | Quick connection and activation system for the hydraulic and electrical systems of the salt spreader. | | There must be electrical connections (at the rear, outside the cab, on the truck frame). | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.3. | Centre of gravity of the mounted spreader | | After installing the snowplow and spreader, the vehicle's center of gravity must be properly shifted and balanced in the longitudinal direction, ensuring optimal axle load distribution and vehicle stability. The tractor's axle distance is possible from 3550 mm to 3900 mm  A drawing of the alignment of the spreading equipment and the truck's centers of gravity must be attached. | | | **Yes/No *(delete as appropriate).*** |
| 2.4. | Installing of the salt spreader on a truck tractor | | The spreader must have a quick removal/installation system for the additional frame on the vehicle. The removal and installation of the spreader is carried out without outside assistance, i.e. without using additional self-propelled lifting devices.  The lifting devices of the spreader are mechanical.  The metal structure of the quick removal/installation (storage) system and the lifting capacity of the lifting devices must ensure safe, long-term and stable storage of the spreader (including when loaded with spreading material and/or filled with brine). | | | **Yes/No *(delete as appropriate).***  ***Permissible lifting capacity of the lifting device (each of the four) - \_\_\_\_\_\_kg.***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.5. | Upper overall dimension of the spreader. | | The height of the salt spreader, including the spreader bracket for mounting, shall not exceed 2 400 mm. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter: \_\_\_\_\_\_\_\_ mm*** |
| 2.6. | Weight of spreader, complete with all mounting equipment, including additional frame | | No less than2000 kg., no more than 3000 kg. | | | **Yes/No *(delete as appropriate).***  ***Weight: \_\_\_\_\_\_\_\_kg***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.7. | Spreader adjustment, calibration | | No later than on the day of transfer of the Item to the Purchaser, the salt spreader installed on the vehicle must be tested, adjusted, and a calibration/verification document approved by the Supplier or its authorised representative must be submitted, indicating the actual quantities of material spread/sprayed in various operating modes. All necessary work shall be performed at the Supplier's expense, *except for the amount of salt, sand-salt mixture, salt solution required for testing and calibration, and the loading of materials into the spreader.* | | | **Yes/No *(delete as appropriate).*** |
| 2.8. | Spreader manufacturer, installer | | The spreader must be manufactured and together with other additional required equipment, installed on the vehicle at the company of the manufacturer of this equipment or by the official representative of the equipment (in that case, documents or copies of documents confirming the representation must be submitted with the offer). Responsibility for the flawless operation of the entire equipment complex and the elimination of all defects revealed during operation lies with the manufacturer of this equipment or its official representative who installed the equipment complex. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.9. | Power transmission | | Spreader with hydraulic power unit. Torque to the power unit is transmitted from the vehicle's rear wheel hub. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.10 | Spreading equipment interface with external road condition information systems (RCIS) and their stations | | **Additional economic efficiency points are awarded for:**  The spreading equipment (control panel, software, etc.) has a real-time interface/integration with the road condition information system and its stations located in the Lithuanian road infrastructure ("Klimator" or equivalent). | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| **Materials hopper** | | | | | | |
| 2.11 | Materials hopper | | The spreader hopper and frame are made of steel, primed and painted.  The metal surface painting process must be carried out in accordance with the requirements of ISO 8501-1. The coating layer thickness must be at least 180 µm. | | | **Yes/No *(delete as appropriate).***  ***Proposed material and colour - \_\_\_\_\_.***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_***  *\_\_\_\_\_\_\_\_\_\_\_\_* |
| 2.12 | Hopper capacity | | Possible load capacity of loose materials - at least 8 m3. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter****- \_\_\_\_ m3.*  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.13 | Feeder of spreading materials. | | Rubberized belt conveyor - ensuring uniform material feed towards the spreading plate, regardless of the type and quantity of material being spread in the hopper.  **Additional economic efficiency points are awarded for:**  For spreaders with a bulk material distribution shaft, ensuring uniform material feeding onto the conveyor belt. The load of the bulk material falls on the distribution shaft, not the conveyor belt. Rubberized belt conveyor - ensuring uniform material feeding towards the spreading plate, regardless of the type and quantity of the spread material in the hopper | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.14 | Mechanism for even distribution of the spreading material. | | A separate mechanism installed along the entire length of the hopper, with a separate hydraulic drive or other type of drive and drive control, which distributes the spreading material more evenly over the rubber belt conveyor. | | | **Yes/No *(delete as appropriate).***  ***Type and description of the proposed device - \_\_\_\_.***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.15 | Hopper cover | | Covered with a metal grate (opening dimensions: no less than 40x40 mm, but no more than 100x100 mm, wire-rod diameter no less than 4 mm) and a moisture-proof, easily closable and openable side tarpaulin without additional means.  The levers of the cover opening/closing mechanism must be accessible to the operator (the covering/uncovering process must be possible) while standing on the ground or on a ladder installed at the rear of the spreader.  The grate structure is hot-dip galvanized. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.16 | Protection against falling down of the spreading material | | The lower part of the materials hopper must be equipped with protection to prevent the spreading material from falling directly onto the truck chassis and elements of transmission located between the longitudinal side profiles of the frame.  It must be possible to wash away any residue of the spreading material that accumulates on the protective device with a water jet, without using additional tools (for removing the bottom (protection) of wrenches). | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| **Salt solution tanks** | | | | | | |
| 2.17 | Salt solution tanks | | Made from corrosion-resistant material.  Salt solution tanks are installed on the sides of the spreader hopper, at the bottom, and at the front of the spreader.  The total volume of the salt solution tanks is at least 2,7 m³. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter****- \_\_\_\_ m3.*  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| **Control** | | | | | | |
| 2.18 | Control of salt spreading and moistening equipment | | Performed from the vehicle cab, using a digital control panel that is easily accessible to the driver from his workplace. | | | **Yes/No** *(delete as appropriate).* |
| 2.19 | Manual control | | The possibility provided by the manufacturer to control the spreading process manually *(in case of emergency).* | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.20 | Control panel | | Showing the total amount of spread materials during the shift, the area of ​​the spread road surface, the spreading width, accumulating data and ensuring digital reading and transmission of data to the dispatcher's workplace and informing the driver about the lack of spread materials or salt solution.  The transmission of spreading data in real time ("On Line") to the dispatcher's workplace must be ensured.  The Supplier must provide the Purchaser with the necessary access codes to adjust the control panel settings.  Having R232 or USB connectors for data transfer.  Compliant with the data encryption standard EN15430 or equivalent.  The menu language of the control panel must also be Lithuanian.  The meanings of the panel buttons must be provided in the user manual.  Must be compatible to work with the KIBIS system | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.21 | Operation data transmission system | | The Supplier must provide access to the control panel data transmission, at least for the following data (for the purpose of controlling the spreader operation):  1. Date, time, operating time.  2. Spreader operating parameters: spreading is on/off or spreading mode, spreading time, spreading width, name of the material being spread, dosage of the material being spread g/m², amount spread kg, solution dosage ml/m² or g/m² (depending on the manufacturer‘s specifications), amount of solution dispensed in litres.  3. Position of snow plow: operating/transport position.  Transport telemetry control services are provided to the Purchaser by UAB Xirgo Global.  *The tender must be accompanied by information that clearly and comprehensively shows the required data.* | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.22 | Generation of data transmission system reports | | Reports must be generated freely by selecting the date and time. They must include:  The date of spreading, the start/end time of spreading.  The start/end location of spreading, total spreading time, spreading distance, and consumption of spreading material and salt solution (kg, litres).  Dosage of spreading material in g/m², dosage of solution in ml/m² or g/m² (depending on the manufacturer’s specifications).  Distance travelled by the vehicle and spreader, m.  Name of material being spread.  ***Detailed information about the reports generated and the required data included in them must be provided.*** | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.23 | Even spreading and salt solution feeding. | | The vehicle movement speed signal must be transmitted to the spreader control panel (linked). The even feed of salt and salt solution to the spreading disc, the even rotation of the disc and the spreading of materials, according to the settings on the control panel, must take place regardless of the vehicle movement speed, as well as when the vehicle is stationary. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.24 | Emergency unloading function. | | Must be provided for and installed by the manufacturer.  Separate three-phase electric motor.  Voltage 400V, power not less than 1.5 kW | | | **Yes/No *(delete as appropriate).***  ***Electric motor power - \_\_\_\_\_kW***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.25 | Spreading parameter programming and fault notification system. | | Must be provided for and installed by the manufacturer. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.26 | Instantaneous increase in the spreading rate | | A function that allows the amount of material being spread to be increased two or more times for a limited period of time. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| **Spreading (dispersal) mechanism** | | | | | | |
| 2.27 | System for mixing the material being spread and solution. | | Ensuring mixing of the spreading material and salt solution and feed of the mixture onto the spreading disc, or mixing of salt and solution directly on the spreading disc. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.28 | Salt moistening and spreading mechanism | | Variable length sleeve/trough and disc with hydraulic drive, liftable upwards and lockable in transport position.  Air shock absorbers provided for and installed by the manufacturer, or equivalent solution to facilitate lifting of the mechanism into transport position. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.29 | Spreading disc | | Diameter not less than 600 mm.  The height of the disc above the road surface is adjusted mechanically (manually), at intervals of not less than 100 mm. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter****- \_\_\_\_ mm.*  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.30 | Spreading disc hydraulic motor | | Protected from direct exposure to salt. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.31 | Salt spreading sensor | | Must be contactless, electronic. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.32 | Adjustable amount of material being spread per m² | | Salt - within the range of 5-40 g/m²  Sifted sand and crushed stone - within the range of 20-300 g/m² | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter:***  **Salt within the range of \_\_\_\_ g/m2.**  **Spread gravel, sand, crushed stone within the range of \_\_\_\_ g/m2.**  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.33 | Adjustable spreading width of the material being spread. | | From 3 m to at least 12 m, at intervals of no more than 1 m, with asymmetrical (increasing or decreasing the width of one side of the spread without changing the width of the other side) adjustment of the spreading material, set using the control panel. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter:***  **Within \_\_\_\_ m, spreading width “pace” of \_\_m.**  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.34 | Forced (pressure) salt solution feeding (to the spreading disc) and control of amount. | | At interval of 5 %, starting from a minimum of 15%, which automatically changes depending on the amount of salt being spread. | | | **Yes/No** *(delete as appropriate).*  ***Proposed parameter****:*  At \_\_ % interval from \_\_\_ %  *Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_* |
| **Safety fence** | | | | | | |
| 2.35 | Safety fence | | Safety fence – lightweight construction, 1-1.15 m high, on the right side of the spreader. | | | **Yes/No *(delete as appropriate).***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| **Signal marking** | | | | | | |
| 2.36 | Dimensional marking,  signal lighting | | The working *(spreading/dispersal)* area must be illuminated by at least one light.  **At least one orange LED** flashing light installed at the rear of the spreader.  **Two flashing LED lights (**Circle safety flashlight)**)** with a diameter of at least 280 mm, installed at the upper corners of the rear part of the spreader.  The rear part marked with warning light-reflecting diagonal red and white stripes. Sample pattern of warning marking:  **Additional economic efficiency points are awarded for:** Not less than 1 orange LED flashing light. Two flashing LED lights (Circle safety flashlight) with a diameter of at least 280mm, mounted on the installed air flow deflector.    The rear part marked with warning light-reflecting diagonal red and white stripes. Sample pattern of warning marking:    Protection of LED beacons and flashing LED lights against solid objects and liquids must be at least IP65. | | | **Yes/No *(delete as appropriate).***  ***Proposed parameter: \_\_\_\_\_\_\_\_\_\_***  ***Title of document submitted as evidence - \_\_\_\_\_\_\_\_\_ and page No \_\_\_\_\_\_\_\_\_\_\_*** |
| 2.37 | Mounting locations for road signs and road signs. | | The rear part of the spreader (on the mounting/suspension unit/frame) shall be equipped with places for mounting warning/directional road signs or the necessary mounting structure, and no later than on the date of delivery of the Item, the following shall be installed:   * 1. a light-reflecting sign No 106 “Work“ not less than 1 (first) size:      * 1. Signal LED light pointer – a system of at least 13 lights complying with L8L, EN 12352 or an equivalent standard, fastened from the rear with screws or equivalent fasteners. The direction of the arrow indicating the mandatory side of the obstacle is changed from the operator‘s workplace using an electrical connection.   A visual indicator informing about the activated direction of the arrow is mandatory at the operator‘s workplace.  The supply voltage of the arrow lights is 24 V.  The protection of the LED light system components against solid objects and liquids is not less than IP65. | | | **Yes/No *(delete as appropriate).*** |
| **SPREADER MOUNTING FRAME** | | | | | | |
| 2.38 | Spreader frame manufacturing | | An additional frame is installed and mounted on the main frame of the truck tractor at the supplier‘s expense, the frame is intended for mounting a salt spreader without removing (dismantling) the trailer coupling . The frame must be installed/mounted on the spreader, snowplow manufacturer's company or by the official representative of the spreader (in which case, documents confirming representation or copies of documents must be submitted with the offer). A document issued by the frame manufacturer stating that the spreader frame complies with the requirements of the Machinery Directive (2006/42/EC) is provided. | | | **Yes/No *(delete as appropriate).*** |
| 2.39 | Changing registration data | | At the supplier‘s expense, prior to the transfer of the purchased equipment to the Purchaser, a homologation examination of the truck-tractor truck equipped with a salt spreader and a snowplow is performed by competent and licensed institutions, the necessary conclusions (certificates) are obtained and the registration data change procedure is performed at AB "Regitra", registering the truck, which is completed and ready for operation with all the equipment, i.e. a special-purpose vehicle (N3 BA SR or equivalent classification), in the name of the Purchaser. | | | **Yes/No *(delete as appropriate).*** |

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(position) (signature) (forename, surname)

*If the tender is signed by a person empowered by the Supplier, a document (power of attorney) granting the specified person the right to sign on behalf of the Supplier must be submitted together with the tender.*