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| **Form of Tender compliance to the Technical Specification**  **PROVISION OF LOCAL REGULAR BUS SERVICES FOR THE CARRIAGE OF PASSENGERS IN VILNIUS CITY AND NEIGHBOURING MUNICIPALITIES**   1. **COMPLIANCE OF THE PROPOSED VEHICLES WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATION**   The Supplier shall provide documentation demonstrating the conformity of the proposed vehicles with the requirements set out in Annex 1 "Technical Specifications" to the Procurement Terms, as specified in the table below. The following shall be provided: the technical documentation of the manufacturer of the proposed vehicles (technical specifications, catalogues, diagrams and/or other technical documents of the manufacturer and/or an internet link to publicly available information/data of the manufacturer). Official documents from the competent authorities (certificates, attestations, test reports, etc.) may be submitted instead of or in addition to the above documents. If the required information and/or data is not available in the documents referred to, descriptions of the technical characteristics of the manufacturer of the proposed vehicles shall be provided. |

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| Table 1. Requirements for **small-capacity bus (SCB)** vehicles: | | |
| **Requirement** | **Technical characteristics** | **Meaning of the technical characteristics proposed by the Supplier (proposed indicators to be specified)** |
| Number of vehicles proposed by the Supplier: | At least 8 small-capacity buses (SCB) |  |
| Supplier's expected vehicle reserve: | At least 10%, i.e. 1 vehicle |  |
| Vehicle manufacturer: | Carrier’s provided |  |
| Model of the vehicle: | Carrier’s provided |  |
| **Requirement** | **Technical characteristics** | **Meaning of the technical characteristics proposed by the Supplier (proposed indicators to be specified)** |
| 1. Vehicle and type of vehicle | * 1. Two-axle M3CE class low-floor city bus (the low-floor part must be in the zone between the bus axles) with a length of up to 8.0 meters. |  |
| * 1. All vehicles offered must be of the same make and model, assembled according to the same technological process in the same factories. |  |
| 1. Number of passengers carried, excluding the driver | * 1. The vehicle must be equipped with at least 14 seats for passengers, the total number of seats and standing places must be at least 26, excluding 1 seat for disabled (persons with special needs with a wheelchair) (with fastening straps, rails or other wheelchair mounting equipment) in the low-floor area between the bus axles. |  |
| 1. Minimum environmental criteria[[1]](#footnote-2) | * 1. The vehicle's powertrain must use electricity. |  |
| * 1. The level of emitted sound in vehicles of category M3 must not exceed the following limits (according to Regulation (EU) No. 540/2014 of the European Parliament and of the Council):   - 73 dB(A) with an engine of less than 150 kW;  - with an engine of 150 kW or more but not more than 250 kW - 76 dB(A)  - 77 dB(A) with an engine of at least 250 kW. | (\* When submitting a tender, the supplier may provide a manufacturer's declaration regarding clause 3.2 of the Technical Specification, stating that the vehicle will comply with the requirement for noise emission levels, and prepare and submit to the contracting authority during the performance of the Agreement, during the preparation stage for the provision of services, no later than before the vehicles are presented for inspection in accordance with point 3.5 of the Agreement, indicating the noise level emitted by the vehicle.) |
| * 1. Vehicles must be equipped with Tyre Pressure Monitoring System (TPMS). |  |
| * 1. Drivers involved in the service must be trained to drive economically. |  |
| * 1. The Carrier must be obliged to collect the used consumables and must have Agreements with companies that provide this service for their disposal. |  |
| 1. Vehicle fuel type and powertrain | * 1. Fuel type - electricity, powertrain - electric motor. (An electric bus designed, adapted and used to carry passengers on the roads.) |  |
| 1. Height | * 1. The height of the passenger compartment (at the aisles in the lower section) shall not be less than 1900 mm. The requirement does not apply beyond the entry/exit door, where steps may be provided if required by the design of the vehicle. |  |
| 1. Passenger service doors | * 1. Double doors for passenger boarding/ alighting on the right side of the vehicle: |  |
| * 1. open outwards; |  |
| * 1. with occupant pinch protection (the door must open if there is an obstacle between the doors when closing); |  |
| * 1. the width of a double door shall not be less than 1200 mm; |  |
| * 1. with emergency door opening on the outside; |  |
| * 1. when a door closes, the audible and light signals at that door (in the passenger compartment) must be activated; |  |
| * 1. the door must be operated from the driver's workstation; |  |
| * 1. the vehicle's braking or other system must be activated when the doors are open to prevent the vehicle from moving when the doors are open. The door opening must be blocked automatically when the vehicle is moving; |  |
| * 1. Other requirements for passenger service doors are given in Annex 2 of the Technical Specification. |  |
| * 1. The driver's cab must be closed or semi-closed (separated from the passenger compartment and ensuring an unchanging microclimate at the driver’s workstation when the door is open). The cab design shall incorporate elements to enable the driver to communicate with passengers, these elements are to be agreed with the Authorised Body. At least 50% of the cab partition area must be transparent. |  |
| 1. Vehicle access ramp (for a wheelchair, child/infant stroller) | * 1. A ramp shall be equipped at the passenger service door for the access of a wheelchair for a person with reduced mobility or a child/infant stroller; |  |
| * 1. The ramp must be able to support a load of at least 350 kg. |  |
| * 1. Buttons for announcing the entry or exit of a wheelchair or a stroller shall be located on the outside of the door and on the inside of the door near the wheelchair space. When one of the buttons is activated, the passenger is informed by a light signal. |  |
| 1. Manoeuvrability | * 1. The right-hand turning radius of the vehicle curb to curb must not exceed 8.5 m. The Carrier will be required to provide a diagram showing the right-hand turning path of the vehicle prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Driving system | * 1. The steering wheel must be installed on the left side of the vehicle. |  |
| 1. Flag holder | * 1. The flag holder shall be located in the upper front part of the vehicle on both sides of the vehicle. |  |
| * 1. The Carrier must purchase the flags of the Republic of Lithuania. The size of the flags of the Republic of Lithuania is 300 x 500 mm, the length of the flag shaft is 500 mm, and the diameter of the shaft is 15 or 16 mm. |  |
| 1. Flooring | * 1. The requirements for vehicle floors are specified in Annex 2 of the Technical Specification. |  |
| * 1. The height of the floor of all vehicles from the entry/exit step to the ground shall not exceed 270 mm (kneeling system could be used) in accordance with UN/ECE Regulation No. 107[[2]](#footnote-3) "Uniform provisions concerning the approval of vehicles of category M3 with regard to their general construction" [2015/922] Annex 8, point 3.1). |  |
| * 1. Passenger boarding/ alighting steps and floor edges are marked with bright contrasting markings and boarding step lighting. |  |
| 1. Passenger compartment air conditioning (ventilation, heating systems) | * 1. The HVAC system of the vehicle shall be electrically powered, i.e. not dependent on any auxiliary power source other than batteries installed in the vehicle, or hybrid, i.e. both electrically powered by batteries installed in the vehicle and an auxiliary power source powered by biofuel (HVO) or its equivalent alternative fuels. |  |
| * 1. The auxiliary power source shall not use fossil fuels (diesel or similar). The auxiliary power source shall only be used for the HVAC system of the vehicle |  |
| * 1. An auxiliary power source shall be permitted for use in cold weather with an outside air temperature of -5 °C and below, and in hot weather with an outside air temperature of +30 °C and above, according to an outside air temperature sensor installed in the vehicle. The use of an auxiliary energy source in other cases shall be subject to the approval of the Authorised Body |  |
| * 1. The Carrier shall provide the authorised body with access to monitor remotely, directly and in real time the activation and use of any such auxiliary energy source and the actual air temperature at the time of activation or use |  |
| * 1. The requirements for air conditioning and heating of vehicles and the temperature in the vehicle compartment are given in Annex 2 of the Technical Specification. |  |
| * 1. At least 1 mechanically or power-operated roof hatch shall be fitted, if the design of the vehicle allows it. |  |
| * 1. The passenger compartment shall have at least 1 window with lockable vents. |  |
| 1. Vehicle decoration/labelling | * 1. The requirements for the decoration of the vehicles are set out in Annex 2 of the Technical Specification. |  |
| * 1. The paint used for the exterior of the vehicles shall be RAL 3000 (Pantone 1805C/U). Certain body elements, such as contours or lights, may be painted in black or silver. Specific elements and colour codes shall be agreed with the Authorised Body prior to the commencement of passenger transport services. The paint used for the exterior of the vehicles must be able to withstand regular washing of the vehicle (e.g. with brushes, high-pressure water jets) and to environmental influences. |  |
| 1. Windows | * 1. Vehicle windows must be made of safety (toughened) glass. |  |
| * 1. Passenger boarding door glass shall cover at least 50% of the door area. |  |
| * 1. The front display shall be located at the front of the vehicle, in the upper part of the windscreen or above the windscreen. |  |
| 1. Interior lighting / exterior lighting, lights | * 1. The passenger compartment shall be equipped with partial (night) and full (day) passenger compartment lighting. |  |
| * 1. Passenger compartment lights shall be so arranged as to provide illumination of the passenger compartment and the passenger service door without dazzling the driver. |  |
| * 1. There shall be boarding step lighting at the passenger service doors. The lights must automatically switch on when the door is opened and off when it is closed. |  |
| 1. Loudspeakers | * 1. The requirements for internal and external loudspeakers for vehicles are given in Annex 2 of the Technical Specification. The loudness must be agreed upon with the Authorised Body prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Passenger Information System | 1. The vehicle must be equipped with external and internal passenger information displays. The requirements for the information to be displayed on external and internal displays are given in Annex 2 of the Technical Specification. |  |
| 1. Passenger information displays (internal and external) shall be controlled by a display controller. The requirements for the input methods for the information to be displayed are given in Annex 2 of the Technical Specification. |  |
| 1. Passenger information system components, including LED or LCD displays, shall be capable of operating throughout the working day (during all the journeys). |  |
| 1. Exterior displays using light-emitting diode (SMD LED or equivalent) technology, in which each point of the sign is a LED or equivalent technology. The colour of the LEDs in the part of the display showing the route number is colour RGB and in the part showing the direction is monochrome white or equivalent. The external displays shall provide a minimum viewing angle of 110° and a luminance of at least 3500 cd/m2 (for the RGB section) and at least 5000 cd/m2 (for the white part). |  |
| 1. There shall be one external passenger information display at the front of the vehicle. The resolution of the part of the front display showing the route number shall be at least 32×19 pixels and the resolution of the part of the front display showing the direction of the route, must be at least 144x24 pixels. The size of this display shall be sized to the maximum dimensions of the window or the cavity above the window. |  |
| 1. There shall be 1 external passenger display on the right-hand side of the vehicle. The resolution of the part of the side display showing the route number shall be at least 32×19 pixels and the resolution of the part of the side display showing the direction of the route, must be at least 144x24 pixels. The size of this display shall be sized to the maximum dimensions of the window or the cavity above the window. |  |
| 1. There shall be 1 external passenger information display at the rear of the vehicle, which displays the route number with the resolution of at least 32×19 pixels. The size of this display shall be chosen to the maximum extent possible within the dimensions of the window or cavity of the display above the window. |  |
| 1. Vehicles must be equipped with 1 external passenger information display on the left side, displaying the route number, the resolution of which must be at least 32x19 pixels. The size of this display must be chosen to the maximum extent possible within the dimensions of the cavity of the display above the window, and if there is no such cavity and the display is installed on the window, the height of the display must be chosen to be the same as the height of the rear or side (right) display. |  |
| 1. The vehicle shall be equipped with 1 internal display with an LCD TFT screen or equivalent technology and a diagonal of at least 29 inches. |  |
| 1. The internal displays shall have a digital interface to the external displays. A resolution of at least 1920x610 pixels and an ultrawide (aspect ratio) of at least 32:9. The display shall be able to show two different images simultaneously. If, due to the design of the bus, it is not possible to install a 29-inch internal display (including the installation of the display on the side towards the direction of driving), it is allowed to install an 18-inch or larger display with a resolution of at least 1900x610 pixels and a screen aspect ratio of at least 16:9. The requirement for the ability to display two different images does not apply to an 18-inch diagonal display. The place of attachment and the diagonal of the display must be agreed with the Authorized Institution before the start of passenger transportation services. |  |
| 1. Inside displays shall have a minimum vertical viewing angle of 170° and a minimum horizontal viewing angle of 170° (ultrawide viewing). The brightness of internal displays must reach at least 600 cd/m2. The internal display board shall be adapted to show a static image without the additional use of matrix burn-in reduction techniques. The screen coating shall be Anti-glare. |  |
| 1. The method of transmission of data updates (audio, route information, promotional videos displayed on internal display screens) shall be remote. |  |
| 1. The passenger information system must be able to provide audio recordings of stops and other information relevant to passengers. The audio announcement of stops shall be synchronised with the display of visual information on internal passenger displays. It shall be made possible to publish the name of the stop and other information related to the stop message (e.g. "Other", "Next stop", "Last stop on the route", "Bypass", "Park trip", etc.). Records of other (non stop related) information must be made able to be published every certain number of stops as provided by the Authorised Body, and/or on a certain route. The sound files shall be provided to the Carrier by the Authorised Body. The Authorised Body shall inform the Carrier of the need for audio recordings via the passenger information system. |  |
| 1. The display controller must have the technical capability to connect third-party equipment via a LAN network. |  |
| 1. Passenger seats | * 1. Passenger seats shall be individual (separate), consisting of a separate backrest and padded seat base made of plastic. |  |
| * 1. Seats must be resistant to wear, dirt and breakage. |  |
| * 1. Two folding single seats in the standing compartment next to the disabled person's seat or equivalent should be equipped. Number of folding seats is not included in the overall number of seats in the vehicle. |  |
| * 1. A wheelchair space must be provided, including a backrest. It shall be equipped with a STOP button (with light indication) and a wheelchair attachment. |  |
| * 1. The seating layout, colour scheme and material shall be agreed with the Authorised Body prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Passenger compartment handrails, handles, waste bins | * 1. Requirements for passenger compartment handrails, handholds are given in Annex 2 of the Technical Specification. |  |
| * 1. One bin must be installed at the driver's workstation. |  |
| 1. Wi-Fi internet system and universal connectors (USB Type-C) must be equipped in the passenger compartment. | * 1. The requirements for Wi-Fi technology are set out in Annex 2 to the Technical Specification. |  |
| * 1. The Wi-Fi device (router) must be installed in the vehicle in such a way that it is protected and out of the reach of passengers. |  |
| * 1. The Wi-Fi device (router) must be suitable for use in a vehicle (transport), i.e. it must be able to withstand an operating temperature of -20°C to +45°C, a humidity of 90% and voltage fluctuations. |  |
| * 1. The requirements for the universal connector (USB Type-C) are given in Annex 2 of the Technical Specification. |  |
| 1. Automatic passenger counting equipment | * 1. The requirements for automatic passenger counting equipment are given in Annex 2 of the Technical Specification. |  |
| 1. In-vehicle and exterior cameras | * 1. The requirements for interior and exterior CCTV camera equipment are given in Annex 2 of the Technical Specification. |  |
| 1. Alcohol interlock | * 1. The vehicle shall be equipped with an alcohol interlock device which shall comply with the Lithuanian standard LST EN 50436-2:2014 (or equivalent) “Alcohol interlocks. Test methods and performance requirements. Part 2: General preventive use devices with a nozzle for measuring the concentration of alcohol in exhaled air” (with additions and amendments). |  |
| 1. Maximum permissible mass of the vehicle | * 1. In accordance with the legislation of the Republic of Lithuania in force on the date of issue of the certificate of conformity of the vehicle. |  |
| 1. E-ticket hardware | * 1. The hardware requirements for the e-ticket are set out in Annex 3 of the Technical Specification. |  |

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| Table 2. Requirements for **midi bus** type vehicles: | | | |
| **Requirement** | **Technical characteristics** | **Meaning of the technical characteristics proposed by the Supplier (proposed indicators to be specified)** |
| Number of vehicles proposed by the Supplier: | At least 84 midi buses |  |
| Supplier's expected vehicle reserve: | At least 10%, i.e. 9 vehicles |  |
| Vehicle manufacturer (1.1 point): | Carrier’s provided |  |
| Model of the vehicle (1.1 point): | Carrier’s provided |  |
| Vehicle manufacturer (1.2 point): | Carrier’s provided |  |
| Model of the vehicle (1.2 point): | Carrier’s provided |  |
| **Requirement** | **Technical characteristics** | **Meaning of the technical characteristics proposed by the Supplier (proposed indicators to be specified)** |
| 1. Vehicle and type of vehicle | * 1. A double-axle M3CE class low-floor city bus (the low-floor part must be located in the area between the axles of the bus) with a length of 8.3 to 10.1 metres, must serve the preliminary routes indicated in Table 1 by serial numbers: 2, 10, 11, 12, 13, 14, 15, 19, 20. |  |
| * 1. All vehicles offered of the same length (8.3 to 10.1 meters) must be of the same make and model, assembled according to the same technological process in the same factories. |  |
| * 1. A double-axle M3CE class low-floor city bus (the low-floor part must be located in the area between the axles of the bus) with a length of 8.8 to 10.8 metres, must serve the preliminary routes indicated in Table 1 by serial numbers: 1, 4, 6, 7, 8, 9, 16, 17, 18. |  |
| * 1. All vehicles offered of the same length (8.8 to 10.8 meters) must be of the same make and model, assembled according to the same technological process in the same factories. |  |
| 1. Number of passengers carried, excluding the driver | * 1. The vehicle serving the preliminary routes indicated in Table 1 by serial numbers: 2, 10, 11, 12, 13, 14, 15, 19, 20 must be equipped with at least 16 seats for passengers, the total number of installed seats and standing places must be at least 45, excluding 1 seat for disabled/persons with special needs with a wheelchair (with fastening straps, rails or other wheelchair mounting equipment) in the low-floor area between the bus axles. For standing passengers, backrests must be provided along the vehicle window in the standing passenger area. |  |
| * 1. The vehicle serving the preliminary routes indicated in Table 1 by serial numbers: 4, 6, 7, 8, 9, 16 must be equipped with at least 23 seats for passengers, the total number of installed seats and standing places must be at least 50, excluding 1 seat for disabled/persons with special needs with a wheelchair (with fastening straps, rails or other wheelchair mounting equipment) in the low-floor area between the bus axles. For standing passengers, backrests must be provided along the vehicle window in the standing passenger area. |  |
|  | * 1. The vehicle serving the preliminary routes indicated in Table 1 by serial numbers: 1, 17, 18 must be equipped with at least 17 seats for passengers, the total number of installed seats and standing places must be at least 55, excluding 1 seat for disabled/persons with special needs with a wheelchair (with fastening straps, rails or other wheelchair mounting equipment) in the low-floor area between the bus axles. For standing passengers, backrests must be provided along the vehicle window in the standing passenger area. Equipment (e.g. shelves) must be installed next to the middle doors for passengers to safely place their luggage, the nature and arrangement of which must be agreed upon prior to the commencement of passenger transport services. |  |
| 1. Minimum environmental criteria[[3]](#footnote-4) | * 1. The vehicle's powertrain must use electricity. |  |
| * 1. The level of emitted sound in vehicles of category M3 must not exceed the following limits (according to Regulation (EU) No. 540/2014 of the European Parliament and of the Council):   - 73 dB(A) with an engine of less than 150 kW;  - with an engine of 150 kW or more but not more than 250 kW - 76 dB(A)  - 77 dB(A) with an engine of at least 250 kW. | (\* When submitting a tender, the supplier may provide a manufacturer's declaration regarding clause 3.2 of the Technical Specification, stating that the vehicle will comply with the requirement for noise emission levels, and prepare and submit to the contracting authority during the performance of the Agreement, during the preparation stage for the provision of services, no later than before the vehicles are presented for inspection in accordance with point 3.5 of the Agreement, indicating the noise level emitted by the vehicle.) |
| * 1. Vehicles must be equipped with  Tyre Pressure Monitoring System, (TPMS). |  |
| * 1. Drivers involved in the service must be trained to drive economically. |  |
| * 1. The Carrier must be obliged to collect the used consumables and must have Agreements with companies that provide this service for their disposal. |  |
| 1. Vehicle fuel type and powertrain | * 1. Fuel type - electricity, powertrain - electric motor. (An electric bus designed, adapted and used to carry passengers on the road.) |  |
| 1. Height | * 1. The height of the passenger compartment (at the aisles in the lower section) shall not be less than 2100 mm. The requirement does not apply beyond the second entry/exit door, where steps may be provided if required by the design of the vehicle. |  |
| 1. Passenger service doors | * 1. At least 2 doors, at least 1 of which shall be a double passenger service door, on the right hand side of the vehicle: |  |
| * 1. the door opening method is coordinated with the Authorised Body before the commencement of the provision of passenger transportation services; |  |
| * 1. with occupant pinch protection (the door must open if there is an obstacle between the doors when closing); |  |
| * 1. the width of a double door shall not be less than 1200 mm; |  |
| * 1. with emergency door opening on the outside; |  |
| * 1. When a door closes, the audible and light signals at that door (in the passenger compartment) must be activated; |  |
| * 1. the door is operated in two ways: |  |
| * + 1. from the driver's workstation, with the possibility of opening all the doors at the same time or individually; |  |
| * + 1. passenger independent door opening system: with buttons in the passenger compartment and on the outside of the vehicle, which can be used by passengers to independently open specific doors (including the front) by themselves; these buttons can only be activated (turned on) by the driver from his workstation. The requirements for the buttons and their placement are specified in Annex No. 2 to the technical specification. |  |
| * 1. the vehicle's braking or other system must be activated when the doors are open to prevent the vehicle from moving when the doors are open. The door opening must be blocked automatically when the vehicle is moving; |  |
| * 1. Other requirements for passenger service doors are given in Annex 2 of the Technical Specification. |  |
| * 1. The driver's workstation must be set up in such a way that at least 600 mm of the front door width is available for passenger boarding. The workstation must be closed or semi-closed, and ensuring an unchanging microclimate at the driver’s workstation when the front door is open. The cab design shall incorporate elements to enable the driver to communicate with passengers. At least 50% of the cab partition area must be transparent. |  |
| 1. Vehicle access ramp (for wheelchair, child/ infant stroller) | * 1. A ramp shall be provided at the passenger service door for the access of a wheelchair for a person with reduced mobility or a stroller for child/infant; |  |
| * 1. The ramp must be able to support a load of at least 350 kg. |  |
| * 1. Buttons for announcing the entry or exit of a wheelchair or stroller shall be located on the outside of the door and on the inside of the door near the wheelchair space. When one of the buttons is activated, the passenger is informed by a light signal. |  |
| 1. Manoeuvrability | * 1. The right-hand turning radius of the vehicle curb to curb must not exceed 10.0 m. The Carrier will be required to provide a diagram showing the right-hand turning path of the vehicle prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Driving system | * 1. The steering wheel must be installed on the left side of the vehicle. |  |
| 1. Flag holder | * 1. The flag holder shall be located in the upper front part of the vehicle on both sides of the vehicle. |  |
| * 1. The Carrier must purchase the flags of the Republic of Lithuania. The size of the flags of the Republic of Lithuania is 300 x 500 mm, the length of the flag shaft is 500 mm, and the diameter of the shaft is 15 or 16 mm. |  |
| 1. Flooring | * 1. The requirements for vehicle floors are specified in Annex 2 of the Technical Specification. |  |
| * 1. The height of the floor of all vehicles from the entry/exit step to the ground shall not exceed 270 mm (kneeling system could be used) in accordance with UN/ECE Regulation No. 107[[4]](#footnote-5) "Uniform provisions concerning the approval of vehicles of category M3 with regard to their general construction" [2015/922] Annex 8, point 3.1). |  |
| * 1. Passenger service steps and floor edges are marked with bright contrasting markings and boarding step lighting. |  |
| 1. Passenger compartment air conditioning (ventilation, heating systems) | * 1. The HVAC system of the vehicle shall be electrically powered, i.e. not dependent on any auxiliary power source other than batteries installed in the vehicle, or hybrid, i.e. both electrically powered by batteries installed in the vehicle and an auxiliary power source powered by biofuel (HVO) or its equivalent alternative fuels. |  |
| * 1. The auxiliary power source shall not use fossil fuels (diesel or similar). The auxiliary power source shall only be used for the HVAC system of the vehicle. |  |
| * 1. An auxiliary power source shall be permitted for use in cold weather with an outside air temperature of -5 °C and below, and in hot weather with an outside air temperature of +30 °C and above, according to an outside air temperature sensor installed in the vehicle. The use of an auxiliary energy source in other cases shall be subject to the approval of the Authorised Body |  |
| * 1. The Carrier shall provide the authorised body with access to monitor remotely, directly and in real time the activation and use of any such auxiliary energy source and the actual air temperature at the time of activation or use |  |
| * 1. The requirements for air conditioning and heating of vehicles and the temperature in the vehicle compartment are given in Annex 2. |  |
| * 1. The passenger compartment shall have at least 4 windows with lockable vents. |  |
| 1. Vehicle decoration/labelling | * 1. The requirements for the decoration of the vehicles are set out in Annex 2 of the Technical Specification. |  |
| * 1. The paint used for the exterior of the vehicles shall be RAL 3000 (Pantone 1805C/U). Certain body elements, such as contours or lights, may be painted in black or silver. Specific elements and colour codes shall be agreed with the Authorised Body prior to the commencement of passenger transport services. The paint used for the exterior of the vehicles must be able to withstand regular washing of the vehicle (e.g. with brushes, high-pressure water jets) and to environmental influences. |  |
| 1. Windows | * 1. Vehicle windows must be made of safety (toughened) glass. |  |
| * 1. Passenger boarding door glass shall cover at least 50% of the door area. |  |
| * 1. The front light panel shall be located at the front of the vehicle, in the upper part of the windscreen or above the windscreen. |  |
| 1. Interior lighting / exterior lighting, lights | * 1. The passenger compartment shall be equipped with partial (night) and full (day) compartment lighting. |  |
| * 1. Passenger compartment lamps shall be so arranged as to provide illumination of the passenger compartment and the passenger service door without dazzling the driver. |  |
| * 1. There shall be boarding step lighting at the passenger service doors. The lights must automatically switch on when the door is opened and off when it is closed. |  |
| 1. Loudspeakers | * 1. The requirements for internal and external loudspeakers for vehicles are given in Annex 2 of the Technical Specification. The loudness must be agreed upon with the Authorised Body prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Passenger Information System | * 1. Vehicles must be equipped with external and internal passenger information boards (displays). The requirements for the information to be displayed on external and internal displays are given in Annex 2 of the Technical Specification. |  |
| * 1. Passenger displays (internal and external) shall be controlled by a light controller. The requirements for the input methods for the information to be displayed by the light-sensitive display are given in Annex 2 of the Technical Specification. |  |
| * 1. Passenger information system components, including LED boards or LCD displays, shall be capable of operating for the entire day (journeys). |  |
| * 1. Exterior displays using light-emitting diode (SMD LED or equivalent) technology, in which each point of the sign is a LED or equivalent technology. The colour of the LEDs in the part of the display showing the route number is colour RGB and in the part showing the direction is monochrome white or equivalent. The external displays shall provide a minimum viewing angle of 110° and a luminance of at least 3500 cd/m2 (for the RGB section) and at least 5000 cd/m2 (for the white part). |  |
| * 1. There shall be one external passenger information display at the front of the vehicle. The resolution of the part of the front display showing the route number shall be at least 32×19 pixels and the resolution of the part of the front display showing the direction of the route, must be at least 144x24 pixels. The size of this display shall be sized to the maximum dimensions of the window or the cavity above the window. |  |
| * 1. There shall be 1 external passenger display on the right-hand side of the vehicle. The resolution of the part of the side display showing the route number shall be at least 32×19 pixels and the resolution of the part of the side display showing the direction of the route, must be at least 144x24 pixels. The size of this display shall be sized to the maximum dimensions of the window or the cavity above the window. |  |
| * 1. There shall be one external passenger information display at the rear of the vehicle. The resolution of the part of the rear display showing the route number shall be at least 32×19 pixels and the resolution of the part of the rear display showing the direction of the route, must be at least 144x24 pixels. The size of this display shall be chosen to the maximum extent possible within the dimensions of the window or cavity of the display above the window. The size of this display must be chosen maximally according to the dimensions of the window or the display cavity above the window. The route number must be displayed to the right of the route direction. If, due to the design of the bus, it is not possible to install an external display of such parameters at the rear of the bus, another solution is possible that meets the requirements for the information provided to passengers set out in Annex No. 2 to the technical specification. Such a solution is agreed upon with the Authorised Body prior to the commencement of the provision of passenger transportation services. |  |
| * 1. Vehicles must be equipped with 1 external passenger information display on the left side, displaying the route number, the resolution of which must be at least 32x19 pixels. The size of this display must be chosen to the maximum extent possible within the dimensions of the cavity of the display above the window, and if there is no such cavity and the display is installed on the window, the height of the display must be chosen to be the same as the height of the rear or side (right) display. |  |
| * 1. Vehicles shall be equipped with 2 internal displays with LCD TFT screen or equivalent technology and a diagonal of at least 29 inches. |  |
| * 1. The internal displays shall have a digital interface to the external displays. A resolution of at least 1920x610 pixels and an ultrawide (aspect ratio) of at least 32:9. The display shall be able to show two different images simultaneously. The places of attachment of displays must be agreed upon with the Authorised Body prior to the commencement of the provision of passenger transportation services. |  |
| * 1. Inside displays shall have a minimum vertical viewing angle of 170° and a minimum horizontal viewing angle of 170° (ultrawide viewing). The brightness of internal displays must reach at least 600 cd/m2. The internal display board shall be adapted to show a static image without the additional use of matrix burn-in reduction techniques. The screen coating shall be Anti-glare. |  |
| * 1. The method of transmission of data updates (audio, route information, promotional videos displayed on internal display screens) shall be remote. |  |
| * 1. The passenger information system must be able to provide audio recordings of stops and other information relevant to passengers. The audio announcement at stops shall be synchronised with the display of visual information on internal passenger information displays. It shall be possible to publish the name of the stop and other information related to the stop message (e.g. "Other", "Next stop", "Last stop on the route", "Bypass", "Park trip", etc.). Records of other (non stop related) information must be made able to be published every certain number of stops as provided by the Authorised Body, and/or on a certain route. The sound files shall be provided to the Carrier by the Authorised Body. The Authorised Body shall inform the Carrier of the need for audio recordings via the passenger information system. |  |
| * 1. The display controller must have the technical capability to connect third-party equipment via a LAN network. |  |
| 1. Passenger seats | * 1. Passenger seats shall be individual, consisting of a separate backrest and padded seat base made of plastic. |  |
| * 1. Seats must be resistant to wear, dirt and breakage. |  |
| * 1. From two to four folding single seats in the standing compartment next to the disabled person's seat or equivalent. Number of folding seats is not included in the overall number of seats in the vehicle. |  |
| * 1. A wheelchair space must be provided, including a backrest. It is equipped with a STOP button (with light indication) and a wheelchair attachment. |  |
| * 1. The seating layout, colour scheme and material shall be agreed with the Authorised Body prior to the commencement of the provision of the passenger transportation services. |  |
| 1. Passenger compartment handrails, handles, waste bins | * 1. Requirements for passenger compartment handrails, handholds are given in Annex 2 of the Technical Specification. |  |
| * 1. One bin must be installed at the driver's workplace. |  |
| 1. Wi-Fi internet system and universal connectors (USB Type-C) in the passenger compartment | * 1. The requirements for Wi-Fi technology are set out in Annex 2 to the Technical Specification. |  |
| * 1. The Wi-Fi device (router) must be installed in the vehicle in such a way that it is protected and out of the reach of passengers. |  |
| * 1. The Wi-Fi device (router) must be suitable for use in a vehicle (transport), i.e. it must be able to withstand an operating temperature of -20°C to +45°C, a humidity of 90% and voltage fluctuations. |  |
| * 1. The requirements for the universal connector (USB Type-C) are given in Annex 2. |  |
| 1. Automatic passenger counting equipment | * 1. The requirements for automatic passenger counting equipment are given in Annex 2. |  |
| 1. In-vehicle and exterior cameras | * 1. The requirements for interior and exterior CCTV camera equipment are given in Annex 2. |  |
| 1. Alcohol blockade | * 1. The vehicle shall be equipped with an alcohol interlock device which shall comply with the Lithuanian standard LST EN 50436-2:2014 (or equivalent) “Alcohol interlocks. Test methods and performance requirements. Part 2: General preventive use devices with a nozzle for measuring the concentration of alcohol in exhaled air” (with additions and amendments). |  |
| 1. The maximum permissible mass of the vehicle | * 1. In accordance with the legislation of the Republic of Lithuania in force on the date of issue of the certificate of conformity of the vehicle. |  |
| 1. E-ticketing hardware | * 1. The hardware requirements for the e-ticketing are set out in Annex 3 of the Technical Specification. |  |

**Municipality Authorised Body Carrier**

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1. Order of the Minister of the Environment No. D1-672[List of products for which environmental protection criteria are applicable in public procurement, description of the procedure for applying environmental protection criteria and environmental protection criteria that contracting authorities must apply when purchasing goods, services or works](https://www.e-tar.lt/portal/lt/legalAct/6f875be088a611e7a3c4a5eb10f04386) [↑](#footnote-ref-2)
2. Regulation No. 107 of the Economic Commission for Europe of the United Nations (UN/ECE) Uniform provisions concerning the approval of category M2 or M3 vehicles with regard to their general construction [2015/922]. [↑](#footnote-ref-3)
3. Order of the Minister of the Environment No. D1-672[List of products for which environmental protection criteria are applicable in public procurement, description of the procedure for applying environmental protection criteria and environmental protection criteria that contracting authorities must apply when purchasing goods, services or works](https://www.e-tar.lt/portal/lt/legalAct/6f875be088a611e7a3c4a5eb10f04386) [↑](#footnote-ref-4)
4. Regulation No. 107 of the Economic Commission for Europe of the United Nations (UN/ECE) Uniform provisions concerning the approval of category M2 or M3 vehicles with regard to their general construction [2015/922]. [↑](#footnote-ref-5)