**1. General.**

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| It is required to replace three obsolete cathodic protection stations (CPS) on the Mažeikiai Refinery–Būtingė Terminal main pipeline with modern units equipped with remote monitoring and control. At present, three CPS are remotely monitored and controlled from the Biržai OTS, with data transmitted over the mobile operator network. Control is performed using a SCADA system supplied by the Belarusian company Belstrojremnaladka. The existing remotely controlled cathodic protection stations are type KZU‑1,2 AM GSM. The GSM modems currently in use are Siemens MC35i. Cathodic protection stations to be replaced are located at these points of main pipeline: |
| |  |  |  |  | | --- | --- | --- | --- | | **Kilometer of pipeline route** | **CPS type** | **Capacity, kW** | **Put into service** | | 24th km, Mažeikiai District, Židikai. | KZU-1,2 AM GSM | 1,2 | 2004 | | 54h km Skuodas District, Narvydžiai. | KZU-1,2 AM GSM | 1,2 | 2004 | | 84th km Kretinga District, Benaičiai. | KZU-1,2 AM GSM | 1,2 | 2004 | |

**2. Attachments.**

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| * + None. |

**3. Description and specifics of work.**

**3.1. General requirements.**

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| The replacement of the CPS shall be completed no later than 31 October 2026. The new CPS shall meet or exceed the technical specifications of the existing KZU‑1,2 AM GSM units. Each station shall provide both manual and remote control (adjustment) of output current, output voltage and protection potential. For remote measurement of protection potential, each station shall be equipped with copper‑sulfate reference electrodes with a service life of at least 15 years. Metering cables shall be copper, double‑insulated, underground‑rated, with a cross‑section of ≥ 6 mm². Where required, cathode and anode cables (copper, double‑insulated, underground‑rated, with a cross‑section of ≥ 25 mm²) and power cables shall be replaced. New cathodic protection stations shall be mounted on suitable supports. |

**3.2. Work description.**

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| * + - Prepare a detailed design for the replacement of the CPS on the main pipeline. The detailed design shall be completed no later than 1 May 2026.     - Based on the number of CPS to be replaced, calculate and specify all labor and material costs.     - Coordinate the design with the Owner and with the owners of the respective land plots.     - Obtain all permits required for the execution of the works. |

**3.3. Special requirements (if any).**

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| The new CPS shall comply with all applicable EU standards. The CPS enclosure shall have a minimum protection rating of IP44 and IK10, be suitable for outdoor installation, and, if the enclosure is metallic, be coated with a corrosion‑resistant paint or equivalent protective layer. All CPS enclosures shall be lockable.  The CPS shall have a power rating of 1.2 kW, supply voltage AC 220 V/50 Hz, maximum output voltage 24/48 V, maximum output current 50/25 A, potential adjustment range -0.8 V to -3.5 V, surge/lightning protection for all measuring, cathodic and anode circuits, protection against internal and external short circuits with automatic reset, an automatic redundant control module that activates in case of primary control failure, automatic detection of breaks in power, measurement, cathode and anode cables, continuous reference‑electrode monitoring, tamper detection, ON–OFF mode, and an internal battery ensuring operation of the main control module for at least 24 hours in case of power loss. The CPS shall have a lifetime of not less than 15 years. |

**3.4. Requirements for work execution and documentation.**

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| Upon completion of the works, the Contractor shall prepare and submit all relevant technical documentation in accordance with the applicable normative acts of the Republic of Lithuania and the requirements of the Owner. |

**3.5. Qualification requirements for Contractor.**

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| * The Contractor shall have proven experience in performing works of this type and shall employ properly trained and qualified personnel certified in accordance with the legal acts of the Republic of Lithuania. The Contractor shall also possess all necessary equipment, tools, and materials. * The Contractor shall familiarize itself with and comply with all requirements established in the Occupational Health and Safety (OHS) Procedures of AB ORLEN Lietuva applicable to the respective works. The list of documents and related information is available at [http://www.orlenlietuva.lt/LT/OurOffer/Forcontractors/Puslapiai/default.aspx](http://www.orlenlietuva.lt/EN/ForBusiness/DocumentsForContractors/Pages/default.aspx); * The Contractor shall perform works on live power installations in accordance with the requirements established by the legal acts of the Republic of Lithuania, including but not limited to: SEEĮT, EETET, EĮBNA, NNPMJVET (full titles provided below). * Before commencing the works, the Contractor shall:   + Submit all documents required under AB ORLEN Lietuva OHS Procedure BDS‑40 for Contractors; Commence works only upon submitting the Statement on the Contractor’s Preparedness to start the works at AB ORLEN Lietuva (Attachment No. 2 to Procedure BDS‑40);   + Submit a list of employees who will carry out works on the Owner’s live power installations;   + Sign the Statement on the Limits of Responsibility for OHS with the Owner;   + Start works on the Owner’s live power installations only after the Owner issues an official decree authorizing such works.   SEEĮT – Safety Regulations for Operation of Electrical Equipment;  EETET – Power Station and Electrical Network Operation Regulations;  EĮBNA – Electrical Equipment Testing Norms and Scopes;  NNPMJVET – Crude Oil and Petroleum Product Onshore and Offshore Pipeline Operation Regulations. |
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**4. Materials, equipment, and services to be provided by the Owner.**

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| * The Owner will provide SIM cards for the modems; * The Owner will provide available information about the land plot owners where the works will be carried out (i.e., contact details). * If possible, and if sufficient allowable electrical capacity is available, the Owner shall provide power supply to the main pipeline (MP) facilities where the CPS replacement works will be performed. In such cases, the Contractor shall arrange temporary connection of its own powered machinery, tools, or equipment to the Owner’s electrical network in accordance with the requirements of Procedure BE‑16 (Procedure for Temporary Powering of Electrical Equipment). |

**5. Materials, equipment, and services to be provided by the Contractor.**

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| * The Contractor shall provide all machinery, tools, equipment, transport, and materials necessary for the execution of the works. * If relocation of electrical metering is required, the Contractor shall coordinate with AB ESO and ensure that all related works are carried out in full compliance with the requirements of both the Owner and AB ESO. * The Contractor shall have certified and experienced personnel, as well as the necessary equipment, materials, and machinery required for the works. If necessary, the Contractor shall also supply any new software. |

**6. Requirements for work completion.**

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| Completion of CPS replacement works – no later than 31 October 2026. |

**7. Requirements for work acceptance.**

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| The works shall be deemed completed when the Contractor has performed the full replacement of the CPS, completed commissioning and startup activities, carried out protection potential measurements at drainage points, and submitted all required technical documentation to the Owner. |

**8. Requirements for work schedule.**

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| Work schedule shall be developed by the Contractor and approved by the Owner. Deadline for work completion: 31 October 2026.  **9. Cost estimation.**  Contractor shall prepare a cost estimate and provide it to the Owner, specifying separately:   1. The price of detailed design development and coordination with the Owner and land lot owners; 2. The price of CPS and replacement works. 3. The price of all other activities not included in a) and b) (if any). |