**SPARE SPM BUOY OF BŪTINGĖ TERMINAL**

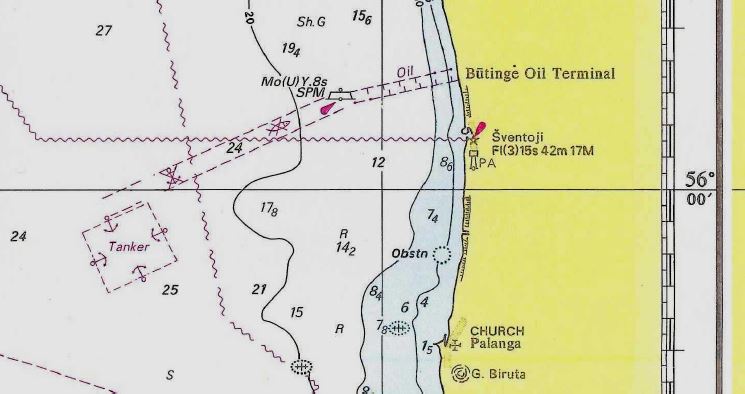
**INSTALLATION OF TELEMETRY, INSTRUMENTATION & AUTOMATION AND**

**POWER SUPPLY SYSTEMS**

01 May 2025

Juodeikiai, Mažeikiai Distr.

1. **Current situation:**
   1. Anchored single point mooring buoy (SPM) of the offshore part of Būtingė Terminal of Public Company ORLEN Lietuva (OL) is designed for marine tanker unloading operations and is installed in the sea 7.3 km from the seashore where the depth of the sea is 22 m. Distance from SPM buoy to Lithuanian-Latvian border is 1 nautical mile North.
   2. Terminal offshore part battery limits cover Būtingė Terminal water basin, tanker anchorage and navigation corridor as shown below:



* 1. Control Room of the Terminal is 2.5 km East from the coastline, coordinates: N – 56o02‘46“, E – 21o02‘41“.
  2. SPM boy is 7.3 km offshore from the coastline, coordinates: N – 56o02’47,30“, E – 20o57’36,50“.
  3. Fixed part of SPM buoy (hull) is anchored to the seabed. Moving part of SPM buoy (turntable) can rotate freely 360o.
  4. Būtingė SPM buoy is designed withstand 54 m/s (105 kts) wind gusts for 1 minute and for operation with moored 150 000 DWT marine tankers. Maximum operational conditions:
     + Nominal DWT of Tankers Unit 120 000 DWT 150 000 DWT
     + Maximum Ship Draft Meters 15.0 16.0
     + Significant Wave Height Hs Meters 4.0 3.0
     + Spectral Peak Period Seconds 10.0 8.7
     + Wind Velocity (10 minutes) Knots 35.0 35.0
     + Surface Current Velocity Knots 1.96 1.96
     + Vessel Heading Degrees 202.5 202.5

(Head Sea=180o)

* + - Wave and wind are assumed to be collinear.
  1. Operational temperature limits - Būtingė SPM buoy is designed for operational temperatures from -20oC to +32oC.
  2. Spare SPM buoy (SPM 1792) moored at the quayside of Klaipėda Seaport must be fitted for operation under conditions and in location described above.

1. **General Scope of Work and Work Specifics:**
   1. According to technical requirements specified in respective Annexes hereto it is required to prepare detailed engineering designs, to complete and install on the spare SPM buoy the following systems:
      * Telemetry and navigation system (Attachment No.1);
      * Power supply system (Attachment No.2);
      * Automation system part (Attachment No.3).

Design for each system must be prepared separately.

* 1. The design and implementation of the systems can be implemented by a single contractor with subcontractors, or by separate contractors for each system. The contractor who undertakes to implement all systems will have priority in evaluating the proposals received.
  2. Contractor shall perform all installation works under the designs as well as any other works arising during installation as required to ensure safe and proper operational conditions.
  3. Contractor must arrange certification of the designs and equipment installed. Certification must be done by certification body DNV GL Lietuva, contacts:



Certification costs must be taken into account by the Contractor.

* 1. Contractor shall perform pre-commissioning works for the systems. Works must be performed by the specialists of manufacturer or respective certified engineers.
  2. Installation works will be performed in the dock (address – Priespilio g. 9, Klaipeda, Lithuania).
  3. Since the buoy is not planned to be replaced with the one currently at sea in the near future, the launch/adjustment works will take place at the buoy's storage location, therefore the contractor must prepare the appropriate equipment for pre-commissioning.
  4. After completion of installation works, Contractor must perform required measurements, tests and present measurement, test reports and other technical documentation.
  5. After completion of installation works, Contractor must present data on changes to design solutions as well as AS BUILT diagrams.
  6. Prior to commissioning, Contractor is required to prepare system operation manuals and agree them with the Owner.
  7. Prior to commissioning, the Contractor shall train the personnel.
  8. Available buoy drawings and photos will be provided by the Owner after Contractor signs confidentiality agreement with the Owner.

1. **Materials and Equipment:**
   1. Contractor shall furnish all the materials and equipment required for implementation of designs.
   2. Technical documentation shall be submitted together with equipment.
   3. All machinery and tools required for execution of works shall be provided by Contractor.
2. **Requirements for Contractor and Subcontractors:**
   1. Contractor shall provide a list of projects of similar scope executed as a contractor/subcontractor during last 5-10 years. The list must contain the following information: name of company/project, summary of project/completed works specifying installed systems and equipment, their capacity, electricity supply system voltage, power, type of power sources, manufacturers of main equipment, project budget, contacts of business owners to refer for additional information on installed systems and quality of works.
   2. Contractor must present documents that authorize to perform designing activities in the scope required hereunder.
   3. Contractor must present documents that authorize to perform installation and commissioning activities in the scope required hereunder.
3. **Work schedule (preferred):**
   1. Design preparation and approval – by 28 February 2026.
   2. Installation/pre-commissioning works in the dock – by 31 December 2026.
4. **For the evaluation of technical part of the proposal the Contractor shall provide:**
   1. Analysis of current situation and preliminary descriptions of works.
   2. Work execution schedule - designing and works in the dock.
   3. Types and technical data of offered equipment.
   4. Sketch, structural diagrams of offered systems.
5. **Annexes:**
   1. Attachment No.1 - Technical requirements for telemetry and navigation system.
   2. Attachment No.2 - Technical Requirements for power supply system part.
   3. Attachment No.3 - Technical requirements for automation system part.
   4. Attachment No.4 - Buoy ex-proof zone drawing.