

SCOPE OF WORK

Butinge oil terminal Tank TK – 101

Preparation for Internal Inspection, Minor Repairs

1. General.

[General description, purpose and place of works]

AB ORLEN Lietuva (further OL) Preparation of storage tank TK - 101 for internal inspection (hereinafter – II), and minor repairs to it. Located in Butinge oil terminal Lithuania Palanga.

Main parameters of Tank TK - 101:

- Product stored in the Tank – crude oil;
- Diameter – 60.7 m;
- Height – 19.10 m;
- Volume – 50 000m³
- Type – floating-roof tank.

2. Attachments.

[List all related additional material (reference number and exact title of document). If any pictures, drawings or diagrams are provided to describe/illustrate the requirements, make sure that they are consistent with the requirements indicated in SOW].

- 2.1. Attachment No.1 – Inspection plan with full Tank drawings;

3. Description and specifics of work.

3.1. Work description.

*[Define and explain each work that needs to be done. Indicate the main steps and actions to be executed by Contractor. Specify preliminary sequence of works. **When planning the scope of work, it is necessary to evaluate the results of inspections performed for the facility / equipment, to take into account the data of continuous inspections and previously recorded incidents (if any).**]*

Contractor mobilization, demobilization.

- 3.1.1 The Contractor shall furnish the special equipment needed for cleaning of the Tank as a confined space, and arrange the equipment on site (all the special equipment: circulation pumps, pre-heaters, filters, spec. sprays required for mixing of the residue, for connecting of hose nozzles, spec. additives required for diluting of solid admixture – from the CONTRACTOR). CONTRACTOR have to provide tank cleaning procedure.
- 3.1.2 CONTRACTOR after cleaning have to prepare tank TK – 101 for full inspection according to INSPECTION PLAN.
- 3.1.3 The Owner (OL) shall discharge the Tank using its stationary pumps down to the Contractor-indicated level (OL stationary pumps are capable of discharging down to the minimum of 0.2 m). In case the level required for confined cleaning is lower than 0.2 m, further discharge

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shall be done by the Contractor using its own equipment). CONTRACTOR have to calculate price included 600m³ of sludge residue to pump out of the tank TK-101 and take it all the way to Mazeikiai refinery. The contractor will have to be able to take it to Mazeikiai refinery from Butinge oil terminal.

- 3.1.4 Diesel fuel required for cleaning of the Tank as a confined space shall be supplied from the off-spec line by temporary connection hoses installed on such by the Contractor.
- 3.1.5 Cleaning of the Tank as a confined space shall be done following the method statement presented to and approved by the Owner. The interior of the Tank shall be washed by way of closed circulation in inert (nitrogen) atmosphere. The residue inside the Tank after closed washing shall be maximum 30 per cent of the initial residue, and the content of crude oil in the residue shall be maximum 250 g/kg. The Contractor shall remove such residue from the Tank mechanically, and ship it out to the soil regeneration site in the Refinery.
- 3.1.6 The Contractor shall blind the Tank, open the manway doors on the shell and roof following the attached blinding diagram. The Contractor shall blind the crude oil mixing system nozzles Ds750x150, 3 pcs, and remove the blinds after repairs done.
- 3.1.7 The Contractor shall wash the Tank inside: the bottom, the shell from the bottom up to the floating roof the bottom and top surfaces of the floating roof cover. The Contractor shall wash any organic sediment off the butt (wall to bottom) weld of the Tank, also off the walk-on part of the service platform (at the top of the Tank).
- 3.1.8 The Contractor shall wash the internals: the pre-heating coil, roof drainage pipeline, instrumentation tubes, 4 bottom drainage sumps, 4 drainage pipes (externally and internally). The Contractor shall wash the inside of the manual sampling tube Ds200, SAAB guide Ds300, 5 breather tubes, roof drainage pipeline from the top to the bottom.
- 3.1.9 . The Contractor shall prepare the Tank for internal inspection based on the Inspection Plan. The scopes of and the requirements for the preparation are provided in the Inspection Plan. Non-destructive testing shall be done by another OL contractor
- 3.1.10 The Contractor shall hydro-test the pre-heating coil (test pressure – 10 bar), and do minor repairs as needed.
- 3.1.11 The Contractor shall remove crude oil from the floating roof compartments (pontoons), 5 pcs, wash them and dry, perform hydraulic/pneumatic testing of the pontoons for leak tightness, and, depending on the test results, weld up any leaky welds detected or repack threaded blind connections of drain nozzles on pontoons.
- 3.1.12 The Contractor shall do minor repairs to the roof: grind defective and re-weld. This item have to be offered as optional.
- 3.1.13 The Contractor shall repair the support leg of the floating roof (coupling installed at the time being). This item have to be offered as optional.
- 3.1.14 The Contractor shall do minor repairs to the bottom level breather (vent) valve (replace gaskets, clean the mesh, check functioning of the valve). This item have to be offered as optional.
- 3.1.15 The Contractor shall hydro-test and do minor repairs to the stormwater runoff system.
- 3.1.16 The Contractor shall close the manways and remove blinds.
- 3.1.17 The Contractor shall tidy up the site and hand such over to the OL Mechanical Engineer in charge.
- 3.1.18 The Contractor will have to drive away all sludge to Mazeikiai refinery

3.2. Special requirements (if any).

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[Indicate specific requirements which might impact performance of works, price, results. (E.g., recommend to visit the site at specified time, etc.)

- 3.2.1 Contractor should visit a site for all clarifications before placing an offer.
- 3.2.2 Additionally CONTRACTOR have to provide price 1m³ of sludge residue pump out of the tank TK-101 and take it all the way to Mazeikiiai refinery. If quantity of residue will not reach 600m³ it will be deducted according price of 1m³ from total offer.
- 3.2.3 CONTRACTOR have to provide water consumption for tank TK-101 cleaning, used water have to be accounted. Planned residue of sludge is around 600m³ and water to be used for tank TK-101 cleaning will be deducted from total quantity of sludge.
- 3.2.4 All the special equipment: circulation pumps, pre-heaters, filters, spec. sprays required for mixing of the residue, for connecting of hose nozzles, spec. additives required for diluting of solid admixture – from the CONTRACTOR.

3.3. Requirements for work execution and documentation.

[Specify the documentation to be provided by Contractor for work execution. If this is some data, indicate and describe the exact data needed and the standards to comply with. In case Contractor has to fill in some documentation, specify the desired format and contents, or refer to the requirements for the document preparation.]

- 3.3.1 The Contractor shall present to the Owner: welding procedure specifications (WPS), flanged connection tightening torques, certificates for used materials, statement on Tank acceptance after repairs and commissioning.
- 3.3.2 Other: method statement for cleaning and closed-up cleaning documentation with residues before and after cleaning indicated in it.

3.4. Qualification requirements for Contractor.

[Specify exact qualification requirements to be met by the Contractor. Describe requirements for works execution, design, reliability, staff, etc.]

- 3.4.1 The Contractor shall hold and provide to the Owner a valid certificate for repair works to crude oil and/or petroleum products (except liquefied petroleum gas) as well as any other liquid fuel storage tanks of over 10'000 m³ and to their appurtenances issued by the State Energy Inspectorate.
- 3.4.2 Welders shall be certified under EN ISO 9606-1.
- 3.4.3 Welding work supervisor shall be certified under LST EN ISO 14731.
- 3.4.4 The Contractor shall have duly certified crane operation supervisors and riggers to do lifting works.
- 3.4.5 The Contractor used vacuum trucks shall comply with ADR requirements and have valid certificates issued for them.
- 3.4.6 Electrical equipment used by the Contractor shall meet the following requirements: el. equipment, distribution cabinets, cables, circuit breakers, plugs, lamps and similar in potential gas release zones shall be explosion-proof. While performing repair works in

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the Refinery, the Contractor shall comply with all the applicable OL occupational safety procedures.]

4. Materials, equipment, and services to be provided by the Owner.

[If certain materials and equipment provided by Owner will be used by Contractor for specific tasks, indicate what exactly will be provided and when]

- 4.1. Materials for repairs.
- 4.2. Scaffolding, insulation installation/demounting;
- 4.3. Lifting crane services;
- 4.4. NDT;
- 4.5. Petroleum product tests, if required.]

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

[List the items to be provided by Contractor as a part of works, and to be included in the price.]

- 5.1. Welding and cutting consumables.
- 5.2. All the washing/cleaning equipment, also fuel to power the equipment, welding equipment, mechanisms for excavation across the dike.]

6. Requirements for work completion.

[Set the main milestones and deadlines or control points in the course of task execution where the Owner is to review the completed tasks, approve, accept such as proper, or reject them.]

- 6.1. The Contractor has completed the specific work, milestone of work, as specified in the SoW and/or Order, and the Parties have signed a Work Handover and Acceptance Statement.
- 6.2. The work site has been cleaned up.]

7. Requirements for work acceptance.

[Describe criteria according to which completed work will be deemed compliant with requirements and accepted.]

- 7.1. The Contractor has completed the specific work, milestone of work, as specified in the SoW and/or Order, and the Parties have signed a Work Handover and Acceptance Statement.]

8. Requirements for work schedule.

[Indicate preliminary work execution period. If period is indicated from the contract signature, such shall be given in calendar days, weeks or months.]

- 8.1. Owner preferred start of works: 01 august 2026.
Completion: 30 september 2026

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