

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

1. General.

[Give the general name of works to be executed, and indicate the exact place of works to be done.]

Mechanical works for preparation of pressure vessels for inspection under package M25-GP-2 shall be performed in Operations Subdivision No 2 in the year 2025. The Contractor shall perform all works listed in the job list of the work package **M26-GP-2** and its attachments. The Contractor shall blind off the pressure vessel, prepare it for steam-out and purging. Demounting equipment indicated in diagrams (pipe sections, valves, level meters, thermowells, bridles, etc.) if required. Clean vessels and their elements using high pressure equipment. The Contractor shall perform full preparation of pressure vessels for inspection in accordance with Inspection Plans (IPs) provided. If any defects of pressure vessel or its elements are identified by inspection, the Contractor shall repair them and issue repair documentation as prescribed by the Owner's Procedure BM-2. Additional scope of repairs will be paid on hourly rate basis therefore hourly rates of staffing and equipment must be quoted in the proposal.

2. Attachments.

[List all related additional material (reference number and exact title of document). If any pictures, drawings or diagrams are provided for describing/illustrating the requirements, make sure that they are consistent with the requirements indicated in SOW and raise no doubts].

- 2.1. Package M26-GP-2 Job List.
- 2.2. Pressure vessel inspection plans, blinding and repair diagrams;
- 2.3. Schedule of preparation of pressure vessels for inspection with shift timing for each vessel.
- 2.4. OWNER'S Procedure BM-2.

3. Description and specifics of work.

3.1. General requirements.

[Provide general summary for the scope of work . Describe general requirements for works. Specify exactly the final desired project objectives/deliverables].

- Preparation of vessels for internal inspection shall include all maintenance and repair works under Package **M26-GP-2** and its attachments.

3.2. Work description.

[Define and explain each work that needs to be done. Indicate the main steps and actions to be executed by Contractor. Specify the sequence of works. If any auxiliary works are required from Contractor, specify such works and indicate how many and what workers are needed for that].

- All works shall be performed according to the Job List provided. Detailed scopes of work for each vessel are provided in the attachments to the Job List: vessel, line blinding diagrams, inspection plans, etc.

1. CONTRACTOR shall install blinds and prepare pressure vessels for steam-out in accordance with provided diagrams. Pagal susitarimą aklinio ir garo padavimo schema gali būti bendra. CONTRACTOR shall install special steam/drain nozzles.
2. CONTRACTOR shall demount the elements of vessels in accordance with provided diagrams. Demount equipment indicated in diagrams (pipeline sections, valves, level

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

- gauges, bridles, etc.). CONTRACTOR shall repack the flanged connections indicated in diagrams by replacing gaskets and studs.
3. CONTRACTOR shall wash vessels using high pressure equipment and dry them after washing.
 4. Where necessary, CONTRACTOR shall remove contaminants from the internal surface of the vessels.
 5. CONTRACTOR shall prepare vessels for planned inspection and revision in accordance with the Inspection Plan (IP) provided by the OWNER.
 6. Depending on vessel registration, CONTRACTOR shall hand vessels over to an accredited body inspector or ORLEN Lietuva inspector for visual inspection control or HT control if it is not possible to perform the internal inspection of the vessel.
 7. After completing repairs, CONTRACTOR shall reinstall blinds, where necessary, perform hydrotest for strength and hand vessels over to an accredited body inspector or ORLEN Lietuva Technical Supervision Engineer for evaluation.
 8. CONTRACTOR shall perform intermediate hydraulic tests in accordance with the provided SOWs (to check the tightness).
 9. CONTRACTOR shall remove water from pressure vessels where necessary.
 10. CONTRACTOR shall remove blinds upon completion of all works under the Inspection Plan and receipt of permission from Work Coordinator.
 11. CONTRACTOR shall produce, if necessary in accordance with SOWs provided, all equipment necessary for repairs.
 12. CONTRACTOR shall have the capability and resources to carry out, if required, post-inspection repairs of vessels according to method statement agreed with the OWNER at hourly rates specified in the Contract.

3.3. Special requirements (if any).

[Indicate specific requirements which might impact performance of works, price, results.]

1. Requirements applicable to Contractor are provided in qualification and technical criteria.
2. Contractor shall perform the coordination of materials. Contractor's material coordinator shall collect the materials from the Owner's warehouse no later than a week prior to the start of the works provided that the materials at that time are available in the warehouse. The Owner shall transport materials within its territory. Material coordination shall be conducted pursuant to Owner's Regulations of Coordination of Materials Transferred to Contractors.
3. In its proposal the Contractor shall take into account and commit to perform the works according to the schedule provided by the Owner and present its own work execution schedule with the indication of labor resources, number of people for each vessel, as requested under technical criteria. **Prior to presentation of proposal, site visit is required for examination of existing situation on site and correct evaluation of the scope of work to be done.**
4. If any defects are identified during inspection, Contractor must have capabilities to repair them and issue repair documentation as prescribed by the OWNER'S Procedure BM-2.
5. As for post-inspection repairs, the Contractor shall be responsible for immediate preparation of repair documentation as per Owner's Procedure BM-2. Contractor shall be responsible for organizing required NDT prior to hydrotesting/handover to inspector. Final documentation shall be submitted within ten days after the completion of works. The requirements applicable to repair documentation are defined in Procedure BM-2.
6. OWNER'S requirement – at least 1 work manager for 15 workers under direct supervision.
7. Mobilization costs shall be included in the price of works.

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

8. Office and tools trailers (including mobilization / demobilization) shall be included in the price of works. The Owner will provide place for such containers, possibility to connect to power, water and sewage network.

9. CONTRACTOR shall have its own certified electrical engineer authorized to perform electrical connections/disconnections of CONTRACTOR'S equipment to/from OWNER'S power networks/facilities.

10. Contractor shall appoint an entry attendant for inspections inside pressure vessels.

11. CONTRACTOR shall install temporary illumination >300Lx inside all pressure vessels indicated in this Work Package in accordance with the established procedure. Illumination is required for cleaning and inspection works.

12. Contractor shall have staff trained for working with compressed air equipment. Equipment shall be furnished by CONTRACTOR.

13. OWNER reserves the right without a separate explanation but subject to agreement with CONTRACTOR, to adjust the deadlines for handing individual pressure vessels over to inspectors, taking into account weather conditions and OWNER'S production needs. OWNER will inform CONTRACTOR about any changes not later than 10 business days prior to the date of particular works.

14. In its proposal, Contractor must pay attention that reloading of catalyst for reactor R-802A and preparation for internal inspection is scheduled for the same period as 2026 spring shutdown. R-802 catalyst unloading, loading works shall be performed by other contractor. Water cooler AV-301/2 preparation for inspection is scheduled for the same period as 2026 spring shutdown.

15. Contractor must take into account that pre-inspection preparation of water cooler AV-301/2 and AV-307 must be performed on 2x11x7 work schedule basis in order to shorten the period when they are not available for operation as much as possible.

16. In its proposal, Contractor should take into account that S-100 compressor pulsation dampener vessels under IDs: SD208_1G4104_001; _002; _003; _004; _005; _006; _007; _008 are prepared for inspection on 1x11x5 work schedule basis and normally at the same time when maintenance/repair of respective compressor is scheduled; therefore, it is necessary to pay attention that other contractor is going to work on site at the same time.

17. In its proposal, Contractor should take into account that S-800 compressor buffer drums under IDs: : SD208_1G4202_006; _007; _008; _009; _010; 011 are prepared for inspection on 1x11x5 work schedule basis and normally at the same time when maintenance/repair of respective compressor is scheduled; therefore, it is necessary to pay attention that other contractor is going to work on site at the same time.

18. In its proposal, Contractor must take into account that any defects identified during inspection of pressure vessels which are subject to 1x11x5 or 2x11x7 mode of work during preparation for inspection shall have to be repaired under the same mode of work.

19. In its proposal, Contractor must take into account that S-400 heat exchanger TK-403 tube bundle shall be extracted by other contractor.

3.4. Requirements for work execution and documentation.

- Maintenance work technology shall be developed for all the repair works that involve welding according to OWNER' requirements and as agreed with responsible OWNER' specialists.

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

- Contractor shall develop repair documentation for all completed repair works according to BM-2 Procedure requirements. Agreed and approved documentation shall be provided to the OWNER'S Technical Analysis Group pressure vessel maintenance foreman.
- All disassembled and assembled flanged connections shall have the attached information plates (tags) indicating the name of Contractor having performed the works, gasket type, ID of metalworker (from the submitted list of trained metalworkers) having assembled the flange, and the date.
-

3.5. Qualification and Technical Requirements for Contractor.

Qualification and Technical Requirements for Contractor. Table 1

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

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

- All materials required for the works (valves, gaskets, blinds, nuts, lubricants, rust removers, elements required for repairs of pipelines and vessels) – by **OWNER**;
- Cranes and forklifts - by **OWNER**;
- Extractor for extraction/installation of tube bundles – **another contractor outsourced by the OWNER under a long-term contract.**
- Scaffolding and insulation – **by another contractor outsourced by the OWNER under a long-term contract;**
- Non-destructive testing – **by another contractor hired by OL under a long-term contract.**

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

- All the equipment required to perform the indicated works - **by CONTRACTOR.**
- High pressure cleaning equipment and vacuum trucks – **by CONTRACTOR.**
- **CONTRACTOR** shall provide all welding materials required for post-inspection repairs indicated in inspection report and its action plan. This includes: electrodes, gas, wool for heat treatment, tools, personal protective equipment, slings, hydraulic equipment, pressure gauges, heat treatment equipment.
- All equipment (el. equipment, distribution cabinets, cables, switches, plugs, lamps, etc.) used by **CONTRACTOR** in potential gas release zones shall be explosion-proof. Vehicle(s) used by the **CONTRACTOR** to pump out and transport sludge must meet ADR requirements.
- **CONTRACTOR** shall plan and have connections to fire hydrants for 4 to 6 bar water supply.

6. Requirements for work completion.

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

- All works must be completed in accordance with the submitted and approved schedule.
- Maintenance documentation shall be developed for all repair works and submitted to the **OWNER** in accordance with BM-2 requirements.
- All pressure vessels shall be handed over to the OWNER'S specialists before closing and a written permit to close must be obtained for them;
- All consumed materials shall be written off after repairs according to each work ID.
- Materials that have not been used must be returned to the **OWNER**' Central Warehouse;
- Any waste generated during the repairs must be sorted, packed, labeled and handled according to **OWNER**' requirements in line with the Waste Management Plan agreed before the commencement of the works;
- After completion of the works, the work area and territory shall be cleaned up and handed over to the OWNER'S Work Coordinator and the Head of respective Unit.

7. Requirements for work acceptance.

During the pressurization of pressure vessel for tightness, the Contractor shall assign employees to stay on duty for the elimination of possible defects and leaks.

8. Requirements for work schedule.

[Give the dates for the key tasks and final results, or the planned period of completion. In case a period is indicated (in days from the contract signature), such shall be given in calendar or workdays.]

- All works shall be performed according to the work schedule provided by OWNER. Note: time for preparation of vessels for internal inspection may not always match OWNER'S schedule provided in tender material, therefore the preparation time of each pressure vessel shall be agreed with OWNER'S mechanical engineer and work coordinator in advance.
- In case of operational necessity and if requested by the Owner, repairs may be performed on weekends, rest days and public holidays under hourly rates for different positions and coefficients established in the contract.

Table 1

	Qualification criteria	YES/NO (if marked YES, necessary supporting documentation must be attached; otherwise, the proposal will be withdrawn from further evaluation)
1	Valid certificate issued by the National Energy Regulatory Council (NERC) of the Republic of Lithuania (Lith. VERT) authorizing maintenance/operation of crude processing facilities: Repair of crude oil processing units irrespective of their parameters.	

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

2	A list of subcontractors (if any). Where subcontractors are indicated, their valid (NERC) certificates for respective works shall be presented. If engagement of subcontractors is indicated though the subcontractors are not named and/or their valid NERC certificates are not provided, the proposal will be rejected or, in case of necessity, subjected to additional revision.	
3	A list of company welding procedure qualification records (WPQR): processes 141 and 111, for material groups FM1 and FM5, for pipes with diameter ≥ 25 mm, wall thickness from 3 mm to 24 mm.	
4	A list of Contractor's welders with regular employment contracts (≥ 3) and their qualification data. Qualification shall be certified as per LST EN ISO 9606-1 requirements for processes 141 and 111.	
5	A list of company employees working under employment contracts and holding European Welding Engineer or European Welding Technologist (IWE, EWE or IWT, EWT) qualification certificates	
6	Signed Job List. This will serve as a confirmation that all works have been included in the proposal. Note: in the absence of such signed Job List, the proposal will be withdrawn from further evaluation.	
7	Attach a completed price table for the work package M26-GP-2 containing only man-hours WITHOUT PRICES. In the absence of such information, the proposal will be withdrawn from further evaluation.	
8	Work experience – where and what works performed over past 5 years. Experience must be appropriate to the type of works indicated in the package M26-GP-2 . In the absence of such information, the proposal will be withdrawn from further evaluation.	
9	Contractor shall submit planned labor resources for each ID. In the absence of such information, the proposal will be withdrawn from further evaluation. $\pm 20\%$ deviation from OWNER'S calculations. In case of a higher deviation, the proposal may be withdrawn from further evaluation.	
10	A work schedule developed and signed by CONTRACTOR.	
11	List of subcontractors (if any) and their labor resources planned for execution of the works. The scope of works assigned to subcontractors cannot exceed 30 per cent of the general Contractor's scope. If works assigned to subcontractors exceed 30 percent of the entire scope, the proposal will be withdrawn from further evaluation.	
12	The number of work managers. OWNER'S requirement – at least 1 work manager per shift of 15 workers. For this requirement, a work organization chart shall be presented. In the absence of such information, the proposal will be withdrawn from further evaluation.	

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

13	CONFIRMATION that, when necessary and agreed with CONTRACTOR, CONTRACTOR will have the capability and resources to prepare individual pressure vessels for inspection in accordance with the OWNER'S production requirements rather than the schedule indicated in the Scope of Work. Without the confirmation, the proposal will be excluded from further evaluation.	
14	Copies of staff training reports, certificates (20 employees at least) proving qualification to work with stud tensioners with fixed torque and certified under EN 1591– 4 (all must be trained max 1 year ago). If any of the above indicated conditions is not satisfied, the proposal will be withdrawn from further evaluation.	
	Technical criteria	YES/NO (if marked YES, necessary supporting documentation must be attached; otherwise, the proposal will be withdrawn from further evaluation)
1	Proof that Contractor's management systems complies with ISO 90001:2015 (LST EN ISO 90001:2008).	
2	Proof that Contractor's environmental management system complies with ISO 14001:2015 (LST EN ISO 14001:2015).	
3	Present proof of compliance of occupational health and safety management system with ISO 45001:2018 (LST ISO 45001:2018) or other EU occupational health and safety standard.	
4	A list of own or rented (if rented, attach rent agreement) machinery with cleaning characteristics (water flow rate, pressure), vacuum tank, high-pressure jets, transport for mobilization of machinery and people.	
5	Number of employees with employment contracts and rigger qualification.	
6	A list and qualification documents of Contractor's employees holding employment contracts and crane operation supervisor certificates.	
7	A list and qualification documents of Contractor's employees holding employment contracts and pressure vessel maintenance foreman certificates.	
8	A list of own (rented) hydraulic and/or pneumatic adjustable torque wrenches (with technical characteristics and quantities) suitable for the intended works (minimum 7500 [N-m]).	
9	A list of owned/rented hydraulic expanders (with technical characteristics and quantities) suitable for the intended works.	
10	A list of owned/rented hydraulic nut cutters (with technical characteristics and quantities) suitable for the intended works.	

SCOPE OF WORK

Preparation of Public Company ORLEN Lietuva Operations Subdivision No 2 pressure vessels for internal inspection under Work Package M26-GP-2

Other information required for procurement

The Contractor is required to quote a fixed price for all mechanical works in the Job List. Additional works will be performed and paid for under a separate agreement, based on hourly rates provided in the contract.