



Līdzfinansē
Eiropas Savienība



Zemkopības ministrija



Lauku atbalsta dienests

CONFIRMED

Ltd "IP Vecmīlgrāvis"

30th of January, 2026

**PROCUREMENT PROCESS
FOR INVESTMENT POSITION
"SET OF EQUIPMENT FOR SALMON PROCESSING HOUSE"
Ref.Nr. IPV-1/2026**

January 2026

TECHNICAL SPECIFICATION OF THE PROCUREMENT SUBJECT

Set of equipment for salmon processing house within the framework of the European Union European Maritime, Fisheries and Aquaculture Fund (EMFAF) activity "Processing of fishery and aquaculture products."

- | | |
|--------------------------------|--|
| <u>1. Applicant:</u> | <u>“IP Vecmīlgrāvis” Ltd</u> |
| 2. Taxpayer number: | LV40003643261 |
| 3. Applicant's address: | Lielā iela 62F, Mērsrags, Mērsraga pagasts, Talsu novads, Latvija, LV-3284 |
| <u>4. Ordered item:</u> | <u>Set of equipment for salmon processing house</u> |
| 5. Delivery address: | Lielā iela 62F, Mērsrags, Mērsraga pagasts, Talsu novads, Latvija, LV-3284 |
| 6. Delivery time: | till 30.06.2027. |
| 7. Proposal validity period: | till 30.06.2026. |
| 8. Technical specification: | see table below: |

8.1. Refrigeration plant

Technical requirements (characteristics):	Designed to ensure refrigeration needs for the salmon processing house (see floor plan Annex 3).
--	--

A set consists of the following sections and equipment:

Equipment for regime -42 °C /-18 °C

8.1.1.	Compressor pack for working regime at T -42°C	2 sets	Minimal technical requirements for each set: 1.1. Screw type compressor 1.2. Evaporation temperature: -42°C 1.3. Electric motor: at least 75 kW; 2P, B3, 400 V, 50 Hz, IP55, IE3 1.4. Refrigerant NH3 (ammonia) 1.5. Capacity control by solenoid valves 1.6. Regulable Vi 1.7. Oil heater with temperature switch 500 W, 220 V 1.8. Oil cooling: glycol water 50% 1.9. Oil separator with 3 stages of filtration: physical, demister and coalescent. 1.10. Provided with double safety valves on oil separator, discharge with check and shut-off valves 1.11. Microprocessor control (Siemens Touch or similar) with touchscreen and thermostatic ventilation, available in English
8.1.2.	Surge drum at -42°C with pumps and oil accumulation	1 set	1.1. Saturation temperature: -42°C 1.2. Cooling power at least 500kW 1.3. Volume 4900L +/- 20% 1.4. Oil accumulator with heater 1.5. Electronic level control for liquid refrigerant 1.6. Two semi hermetic pump (WITT model HRP 5040 or similar) – one of them in standby 1.7. Provided with valves

8.1.3.	Evaporator for cold storage (freezer room at -24°C)	2 sets	Minimal technical requirements for each: 1.1. Capacity at least 31kW 1.2. Evaporation temperature: -42°C 1.3. Room temperature: -24°C 1.4. Refrigerant: NH3/ ammonia (R717) 1.5. Defrost and freeze protection: hot gas defrost on coil and condensate tray, fan ring heaters and drain heater 1.6. Provided with valves 1.7. Provided with support units (stainless steel) to fix the units to the construction (false ceiling).
Equipment for regime -18 °C /+35 °C:			
8.1.4.	Compressor pack for working regime at T -18°C	2 sets	Minimal technical requirements for each set: 1.1. Screw type compressor 1.2. Evaporation temperature: -18°C 1.3. Electric motor: at least 250 kW; 2P, B3, 400 V, 50 Hz, IP55, IE3 1.4. Refrigerant NH3 (ammonia) 1.5. Capacity control by solenoid valves 1.6. Regulable Vi 1.7. Oil heater with temperature switch 500 W, 220 V 1.8. Oil cooling: glycol water 50% 1.9. Oil separator with 3 stages of filtration: physical, demister and coalescent. 1.10. Provided with double safety valves on oil separator, discharge with check and shut-off valves 1.11. Microprocessor control (Siemens Touch or similar) with touchscreen and thermostatic ventilation, available in English
8.1.5.	Surge drum at -18°C and oil accumulators	1 set	1.1. Saturation temperature: -18°C 1.2. Cooling power at least 1200kW 1.3. Volume 4900L +/- 20% 1.4. Oil accumulator with heater 1.5. Electronic level control for liquid refrigerant 1.6. Plate heat exchanger at least 500kW 1.7. Provided with valves
Equipment for air renovation system (with heat recovery):			
8.1.6.	Air renovation and heat recovery unit	2 units	Minimal technical requirements for each: 1.1. Capacity 3000m³/h 1.2. Heat recovering efficiency at least 83% 1.3. Location: false ceiling 1.4. Provided with filters and fans 1.5. Provided with warm glycol preheating battery

Equipment for water-glycol system:

8.1.7.	Glycol air cooler for rooms at 0°C	4 units	Minimal technical requirements for each: 1.1. Capacity at least 14kW 1.2. Room temperature: 0°C 1.3. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: -14/ -10 °C (inlet / outlet) 1.5. Defrost and freeze protection: warm glycol defrost and drain heater 1.6. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.8.	Glycol air cooler for rooms at -5°C	2 units	Minimal technical requirements for each: 1.1. Capacity at least 16kW 1.2. Room temperature: -5°C 1.3. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: -14/ -10 °C (inlet / outlet) 1.5. Defrost and freeze protection: warm glycol defrost and drain heater 1.6. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.9.	Glycol air cooler for rooms at +2°C	2 units	Minimal technical requirements for each: 1.1. Capacity at least 12kW 1.1. Room temperature: +2°C 1.2. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.3. Glycol operating temperature range: -14/ -10 °C (inlet / outlet) 1.4. Defrost and freeze protection: warm glycol defrost 1.5. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.10.	Glycol air cooler with warm glycol circuit for dehumidifying control (rooms at +10°C)	4 units	Minimal technical requirements for each: 1.1. Capacity at least 50kW 1.2. Room temperature: +10°C 1.3. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: -14°C to -10°C (on the cold side) and +40°C to +35°C (on the warm side) 1.5. Provided with warm glycol batteries 1.6. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).

8.1.11.	Glycol air cooler with warm glycol batteries (rooms at +10°C)	2 units	Minimal technical requirements for each: 1.1. Capacity at least 23kW 1.2. Room temperature: +10°C 1.3. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: –14°C to –10°C (on the cold side) and +40°C to +35°C (on the warm side) 1.5. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.12.	Glycol air cooler with warm glycol batteries (rooms at +6°C)	2 units	Minimal technical requirements for each: 1.1. Capacity at least 17kW 1.2. Room temperature: +6°C 1.3. Working fluid: Water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: –14°C to –10°C (on the cold side) and +35°C to +40°C (on the warm side) 1.5. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.13.	Glycol air cooler with warm glycol batteries (rooms at +25°C)	1 unit	Minimal technical requirements for each: 1.1. Capacity at least 42kW 1.2. Room temperature: +25°C 1.3. Working fluid: water glycol mixture, 50% ethylene glycol in weight 1.4. Glycol operating temperature range: –14°C to –10°C (on the cold side) and +35°C to +40°C (on the warm side) 1.5. Provided with valves and support units (stainless steel) to fix the units to the construction (false ceiling).
8.1.14.	Hot and cold water-glycol circuit	1 set	1.1. Working fluid: water glycol mixture, 50% ethylene glycol in weight with corrosion inhibitors 1.2. Glycol freezing point: approx.. -36°C 1.3. Provided with industrial plate exchanger hot glycol, capacity 75kW 1.4. Provided with industrial plate exchanger cold glycol, capacity 500kW 1.5. Provided with dry cooler water glycol mixture 50%, capacity 250kW 1.6. Provided with cold and hot glycol pumps (5 units, 1 from cold glycol and 1 from warm glycol in standby), capacity at least 62m³/h for warm glycol and 75m³/h for cold glycol with a minimum head of 30m. 1.7. Provided with hot glycol container at least 1000L with expansion vessel and valves 1.8. Provided with hot glycol container at least 2000L with expansion vessel and valves

Joint elements:			
8.1.15.	Evaporative condenser with heater and valves	1 set	1.1. Envelope construction 1.2. Heat rejection capacity at least 1900kW 1.3. Condensing temperature: +35°C 1.4. Wet bulb temperature: +23°C 1.5. Air flow rate: at least 38m³/s 1.6. Provided with freeze protection for ambient temperature -25 and +10°C 1.7. Provided with valves
8.1.16.	Liquid receiver with valves	1 set	1.1. Volume 2500L +/- 20% 1.2. Provided with high pressure gauge and transducer 1.3. Provided with valves
8.1.17.	Non- condensable automatic purge system	1 set	1.1. Operating in automatic mode 1.2. Integrated level, temperature and pressure sensors and non-condensable output sensors 1.3. Ready to installation: complete automatic purge unit with valves, solenoids and control centre
8.1.18.	Security devices for ammonia	1 set	Containing at least of: 1.1. Permanent NH3 leak detector 1.2. Ammonia washing system 1.3. Electrical cabinet to control the air extraction system 1.4. Exhaust fan 1.5. Protective suit for ammonia with globes and boots, autonomous air breathing system, masks with K2 filters for ammonia and eye washers.
8.1.19.	Power and electrical control panel and software (including SCADA)	1 set	1.1. Material: 2mm thick, cold-folded steel sheet 1.2. Containing at least: 1.2.1. Main switch (manual operation) 1.2.2. Ammeters for compressors and pump motors 1.2.3. Hour counter for compressors 1.2.4. Motor protectors for each motor 1.2.5. Soft starter for compressors 1.2.6. Auxiliary relays 1.2.7. Switching power supply 220/24V 1.2.8. Panel wiring with flexible conductors of 750V nominal insulation voltage 1.2.9. PLC with display for controlling the screw compressor units and the refrigeration system as a whole 1.2.10. All conductors should be marked with plastic numbers and connected using pre-insulated terminals. 1.2.11. SCADA type software for controlling and monitoring the whole refrigeration plant, the rooms and the freezing tunnels.

Materials for installation and commissioning:			
8.1.20.	Electrical wiring	1 set	The electrical installation shall provide the connection of all components from the electrical cabinet in the engine room to the respective system equipment, including evaporators, air coolers, sensors, compressors, pumps, heaters, and other devices. The room layout (Appendix 3) is provided as part of this procurement documentation. Halogen-free flexible cables with a voltage rating of 0.6/1 kV shall be used. Cable cross-sections shall be selected according to the power rating of each electrical component, while screened cables shall be used for sensors and control circuits. All cables and hoses shall be clearly identified with labels. Cables routed above the false ceiling shall be installed on Rejiband-type or equivalent cable support systems using appropriate fixing and connection accessories. Where cables are routed outside the cable support system, they shall be installed inside stainless steel conduits for mechanical protection. All auxiliary materials and installation works shall be included. All wiring and connections shall comply with the applicable local Low Voltage Directive (LVD) and relevant regulations.
8.1.21.	Ammonia piping	1 set	Piping works shall be carried out in accordance with the room layout (Appendix 3), and the ammonia system layout (Appendix 4). <u>Ammonia piping</u> shall be made of seamless carbon steel pipes: ASTM A106 for high-temperature sections and ASTM A333 for ammonia service, with diameters as per drawings. All supports, auxiliaries, welding, installation, and tightness testing shall be included. Pipes crossing process rooms shall be seamless stainless steel, with a minimum recommended Schedule 80, suitable for system design pressures of approximately 19 bar (high pressure) and 13 bar (low pressure). All ammonia piping shall comply with PED and UNE-EN 378. <u>Insulation</u> shall include cleaning and corrosion protection of pipes, followed by polyurethane insulation (M-1, 40 kg/m³) with thickness as per drawings, finished with 0.6–0.8 mm aluminium or stainless steel cladding. All accessories shall be included. Pipes installed inside rooms shall have a white-lacquered external finish.

8.1.22.	Water-glycol system piping	1 set	Piping works shall be carried out in accordance with the room layout (Appendix 3), and the water-glycol system layout (Appendix 6). <u>Glycol piping</u> shall be made of AISI 304 seamless stainless steel, Schedule 40, with diameters as per drawings; alternative stainless steel pipes with minimum PS ≥ 10 bar are acceptable. All supports, auxiliaries, welding, installation, and tightness testing before insulation shall be included. All glycol piping shall comply with PED and UNE-EN 378. <u>Insulation</u> shall include cleaning and corrosion protection of pipes, followed by polyurethane insulation (M-1, 40 kg/m³) with thickness as per drawings, finished with 0.6–0.8 mm aluminium or stainless steel cladding. All accessories shall be included. Pipes installed inside rooms shall have a white-lacquered external finish.
8.1.23.	Valve trains for IQF, plate freezer and ice machine	1 set	Include valves for further expansion of the system: - Liquid injection: Shut-off valve, Micron filter, Solenoid valve, Manual regulation valve, Check valve; - Wet suction: Pressure gauge with service valve, Shut-off valve, On/Off valve with electrical actuator.
8.2.	Equipment for freezing fish products		
Technical requirements (characteristics):		The aim of the purchase is to ensure the necessary technical capacity for the production of quick-frozen salmon products.	
A set consists of the following equipment:			
8.2.1.	Linear forced air freezing tunnel	1	1.1.Capacity: 2000kg/h 1.2.System elements: Isothermal container, stainless steel belt conveyor, evaporator, fans 1.3.Isothermal container: self-supporting, modular. 1.4.Conveyors divided in 4 sections with individual electric servo drive, last 2 zones must be able to lower up to 200 mm for stacking of product in last section. 1.5.Evaporators made of stainless steel or aluminium and be fully integrated into the airflow path for maximum heat exchange efficiency 1.6.Axial fans integrated for airflow; coupled with stainless steel belt and stainless/aluminium evaporator ducts for optimum heat exchange. 1.7.Cooled by ammonia system.

8.2.2.	Modular static forced air tunnel freezer	1 1.1. Capacity 2000kg/h 1.2. System elements: Isothermal container, evaporator, fans, air ducting system, input and output, mobile platforms 1.3. Isothermal container: self-supporting, modular. 1.4. Axial fans with closed-loop air ducting to provide forced convection across all product surfaces. 1.5. Evaporators: stainless steel/aluminium and integrated within the air circulation path. 1.6. A top suction and lateral curtain system to direct airflow uniformly below the mobile platforms. 1.7. Electrically driven mobile platforms height-adjustable in the final two zones (lowering up to 200 mm) to enable product stacking or staged freezing. 1.8. Product loading and unloading supported via insulated input/output doors. 1.9. Cooled by water-glycol system.
--------	---	---

9. Other requirements:

- a supplier has at least one year of experience in the field to which procurement relates;
- all the parts and units in the set of equipment must be new and comply with EU standards.
- a supplier must declare that the equipment is new and after delivery, a supplier must provide the appropriate CE certificates for the equipment set.
- **the price of the equipment set must include the purchase, delivery, installation (including first charges of ammonia, oils, ethylene glycol 50% with water and corrosion inhibitors, etc.), staff training (including operating instructions), supervision and all other costs required for the commissioning of the equipment.**
- a supplier submits relevant information (manufacturer, model, additional description of equipment, pictures, etc.) about the proposal to allow assessing its compliance with the technical specification thoroughly.
- a supplier is a manufacturer or a representative and has the right to sell and maintain the equipment specified in the offer.
- **the proposal must be prepared and submitted in Latvian or English. It must be typed and signed with a secure electronic signature.**
- a supplier must submit a proposal: by e-mail to address: ieva@edo.lv.
- the proposal must be of good quality and prepared so that it does not have to be modified. **The proposal must state that the offer is final and will not be reviewed.**

10. Warranty: at least 12 (twelve) months from the date of commissioning.

11. The proposal consists of:

- completed and signed Application for participation – Annex 1. To obtain the form in MS Word format, please contact Ieva Leimane electronically by sending a request to the e-mail – ieva@edo.lv;
- additional information about the set of equipment (manufacturer, model, additional description of equipment, pictures, etc.) which allows to assess its compliance with the technical specification;
- confirmation of an independently prepared offer – Annex 2.

12. The proposal must be submitted by the 4th of March, 2026, by email, signed with secure electronic signature.

13. Evaluation of proposals:

- 13.1. Supplier submits one proposal for the entire procurement subject. The contract will be concluded for the whole issue of the procurement.
- 13.2. Only a proposal that includes all information mentioned in point 11 of the technical specification will be evaluated.
- 13.3. The commission for opening procurement proposals is closed.
- 13.4. The winner will be the supplier who submits the proposal in accordance with the technical specification with the lowest price.

The technical specification of the procurement process was approved by:

Edgars Zaicevs, project manager

APPLICATION FOR PARTICIPATION

Place

Date:

Customer: Ltd "IP Vecmīlgrāvis"
LV40003643261

Procurement: "Set of equipment for salmon processing house" Ref.Nr. IPV-1/2026

Supplier information

Name of supplier:
Taxpayer number:
Legal address:
Post address:
Phone:
E-mail:

Supplier contact information

Name, Last name:
Position:
Phone:
E-mail:

Financial proposal			
--------------------	--	--	--

Position (model)	Quantity	Unit price, EUR (excl. VAT)	Total price, EUR excl. VAT)
Set of equipment for salmon processing house (engineering, supervision and commissioning included)	1		
Shipping costs:			
Training costs:			
Total EUR, excl. VAT			
EUR, VAT			
Total EUR, incl. VAT			

Proposal validity period: till 30.06.2026.
Delivery time: till 30.06.2027.
Delivery address: Lielā iela 62F, Mērsrags, Mērsraga pag., Talsu nov., Latvija

Order and price overview		
	Quantity	Total price (€)
Refrigeration plant, including:		
Equipment for regime -42/-18 °C		
Compressor pack for working regime at T -42°C	2 sets	
Surge drum -42°C with pumps and oil accumulators	1 set	
Evaporator for cold storage (freezer room at -24°C)	2 sets	
Regime -18/ 35 °C		
Compressor pack for working regime at T -18°C	2 sets	
Surge drum -18°C with pumps and oil accumulators	1 set	
Air renovation system (with heat recovery)		
Air renovation and heat recovery unit	2 units	
Equipment for water-glycol system		
Glycol air cooler for rooms at 0°C	4 units	
Glycol air cooler for rooms at -5°C	2 units	
Glycol air cooler for rooms at +2°C	2 units	
Glycol air cooler with warm glycol circuit for dehumidifying control (rooms at +10°C)	4 units	
Glycol air cooler with warm glycol batteries (rooms at +100°C)	2 units	
Glycol air cooler with warm glycol batteries (rooms at +60°C)	2 units	
Glycol air cooler with warm glycol batteries (rooms at +250°C)	1 unit	
Hot and cold water-glycol circuit	1 set	
Joint elements		
Evaporative condenser with heater and valves	1 set	
Liquid receiver with valves	1 set	
Non- condensable automatic purge system	1 set	
Security devices for ammonia	1 set	
Power and electrical control panel and software (Scada included)	1 set	
Engineering, supervision and commissioning:		
Regime -42°C /-18°C	1 set	
Regime -18°C /+35°C	1 set	
Equipment for water-glycol system	1 set	
Electrical installation, including:	1 set	
<i>Electrical wiring</i>		
<i>Installation</i>		
Ammonia distribution system:	1 set	
<i>Electrical wiring</i>		
<i>Installation</i>		
Water-glycol distribution system:	1 set	
<i>Electrical wiring</i>		
<i>Installation</i>		
First charges:	1 set	
<i>Leakage test and vacuum</i>		
<i>First oil charges for the compressors</i>		
<i>First charges of ammonia</i>		
<i>First charges of ethylene glycol 50% with water and corrosion inhibitors</i>		
Valve trains for IQF, plate freezer, ice machine and pressure regulator	1 set	

Equipment for freezing fish products, including:

Linear forced air freezing tunnel 1

Modular static forced air tunnel freezer 1

Set of equipment for salmon processing house

Total EUR, excl. VAT

Supplier hereby confirms that:

1. it has more than one year of experience in the field to which procurement relates.
2. all units and parts of the equipment included in the proposal are new and complies with the standards of the European Union.
3. along with the set of equipment, the corresponding CE certificates will be provided for all equipment units.
4. the total price of the proposal includes the costs of purchasing, delivery, installation, insulation, commissioning, start-up, staff training etc. costs.
5. the warranty period of the equipment set is at least 12 (twelve) months.
6. the set of equipment included in the proposal **fully complies with the technical specification Ref.Nr. IPV-1/2026.**
7. the proposal is final and will not be revised.

Date_____

Signature

Confirmation of an independently prepared offer Ref.Nr. IPV-1/2026

By providing comprehensive and truthful information, _____
Supplier's name, reg. Nr.

(hereinafter - The Applicant) concerning the specific procurement confirms, that:

1. The Applicant has read and agrees with the content of this confirmation.
2. The Applicant is aware of its obligation to provide complete, comprehensive, and truthful information in this confirmation.
3. The Applicant's authorized person has signed the Applicant's procurement offer.
4. The Applicant informs that he has submitted an offer independently of competitors¹ and without consultations, contracts, or agreements. The Applicant has not been in contact with any competitor regarding:
 - 4.1. Prices;
 - 4.2. Methods of price calculation, factors (conditions) or formulas;
 - 4.3. Intention or decision to participate or not to participate in the procurement (to submit or not to submit a tender); or
 - 4.4. Submission of an offer that does not meet the procurement requirements;
 - 4.5. Quality, volume, specification, performance, delivery, or other conditions must be resolved independently of competitors for products or services covered by this procurement.
5. The Applicant has not knowingly, directly, or indirectly disclosed and will not disclose the terms of the offer to any competitor before the official date and time of the opening of proposals or the contract award.
6. The Applicant is aware that the Law of Competition provides for liability for prohibited agreements, providing for a fine of up to approximately 10% of the infringer's net turnover in the last financial year, and the Applicant may be excluded from participation in the procurement procedure.

Date _____

Signature

¹ In the context of this statement, the term "competitor" means any natural or legal person, other than the Applicant who: 1) submits an offer for this procurement; 2) depending on its qualification, abilities or experience, as well as the goods or services offered, could submit an offer for this procurement.