



Offer number: 230907003

TECHNICAL QUOTATION

CRYOGENIC LNG ROAD TANKER

58 m³ MLI ISOLATION



INDOX ENERGY SYSTEMS, S.L.
Pol. Industrial La Serra - C/ Tres Tombs, s/n
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Client:

APIS Sp. Z o.o. Oddzial Szczecin

Country:

POLAND

Date:

02/11/2023

Att:

Mr. Michal Trepanowski



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1. TECHNICAL DESCRIPTION

1.1. PRINCIPAL CHARACTERISTICS

Vehicle type	Semitrailer
Optimised for transport of	LNG
Maximum Working Pressure	7 (bar)
Design transport	ADR / TPED
Geometric Capacity	58.000 litres
Net Capacity (95%)	55.100 litres
Isolation Type	MLI Superinsulation + Vacuum
Tare Weight	13.000 kg +/-2%
Weight Truck Considered	7.000 kg
Pay Load	20.000 kg
Gross Weight	40.000 Tm
Maximum Semitrailer length	14.040 mm
Maximum Width	2.550 mm
King pin	1.250 mm

1.2. INNER VESSEL

Material	Stainless Steel 304
Inspection	Bureau Veritas Spain
Design code	ADR / TPED (CE) EN13530
Design temperature	- 196°C
Ry	100%
Filling line in sprinkle place in the upper part of the tank	Included
Inner Baffles	7 units



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Piping between inner and outer vessel	Stainless steel type AISI 304
Security Valves	2+2 units + DIVERTER

1.3. OUTER VESSEL

Design code	ADR / TPED (CE)
Isolation	MLI Super insulation + vacuum
Material	Stainless steel
Outer diameter	2550 mm

1.4. PIPING / INSTRUMENTATION

Media pipes	Stainless steel
Instrument tubes	Stainless steel
Safety line valves	Between the valves
2 Filling Trycock	95% (ADR) / 84%
ON CENTRAL TANK / Piping Charge / Discharge	Charge: Liquid Phase DN80 Gas Phase DN50 Liquid phase to vaporizer (PBU) DN50
VALVES (HEROSE)	Pneumatic and Manual (HEROSE) Liquid Phase DN65 pneumatic operation + DN65 manual Gas Phase DN50 pneumatic operation + DN50 manual Liquid phase to vaporizer (PBU) DN50 pneumatic operation + DN25 manual
Filling both sides	Liquid phase: Flange 2 x 3" + blind flange Gas phase: Flange 2 x 2" + blind flange Flange type ASA 150 lb SORF
Discharging on both sides coupling	Couplings NOT Included (TIMEX scope of supply) Indox will provide blind flange
Valves (liquid loading & unloading)	According: 2014/68/UE Directive
Valves of drain and security	Conduction to vapour lines
Pressure manometer	1 unit (0-10 bar)
Level Gauge	1 unit (Samson Media 5)



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Vacuum sensor	Teledyne, with valve (DV-6 type)
Emergency buttons Dead man (all located in right side)	3 in total, 1 at the front next to the King-pin 1 in the cabinet 1 in the rear side (chassis)
ESD additional safety system for Swinoujscie Terminal	Included

1.5. VAPORIZER (PBU)

Pressure Building Unit	Made in Aluminium finned pipe Located between the cabinet and landing legs
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1.6. TRAILER / BOOGIE SYSTEM / ACCESSORIES

Vehicle regulation	ADR / TPED
Frame	Aluminium
Axles / pneumatic system	SAF axles, (9 Tn x 3) with Discs Brakes 1°: lifting axle 2°: fixed axle 3°: fixed axle
Tires	6 units 385/55 R22,50 Bridgestone
Rims	6 units R22,50 Aluminium
Air vessel	Aluminium
Braking system	Line air braking with load sensing and EBS WABCO RSS (4S/2M) with high and low valve
King pin	162,4 KN- 2-inch Carbon Steel
Electrical wires and boxes	IP65 EN 60529; one front, one rear 15 Pin connection ISO 7638
Plates	ADR Flow diagram inside
Cyclist protection	Included
Bumpers	Standard INDOX
Lights CE	According with ADR
PVC tool box	1 Unit
Wheel chocks	2 units type PVC

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1.10. SIGNS

Holder plate at rear position
1 Support for product number
3 Diamond plates, 2 at each side, 1 in rear tank
ADR Plate
IMDG Homologation

1.11. TEST AND INSPECTION REQUIREMENTS AND APPROVALS

Our THIRD company inspection for our equipment is Bureau Veritas.
Inspection Plan and Schedule to be agreed between customer and Indox.
All certifications are in accordance with European regulation.
Vacuum test.
Operating test.
ADR.
IMDG.

1.12. DOCUMENTATION

P&ID.
Quality book (Certificates of testing, Certificates of conformity, Certificate of Registration, ADR certificate).
M& Operational Manual in English (Other Languages, under request)
All books 2 copies in paper and 1 electronic copy.
Electrical schemes.
Dimensional drawing.
Welding certifications.

1.12.1 DOCUMENTATION EXCLUDED FROM MANUFACTURER

TIMEX scope of supply

- 1- The registration costs of the semitrailer in the TDT Polish authority.
- 2- The cost of preparing the ADR document and registration in Polish Authority of Transportation.
- 3- Prepare the tank to work (couplings cost, coupling the tank before the first loading in Swinoujscie LNG Terminal, including the cost of Nitrogen for the cold-down).
- 4- Obtain permission to loading the semitrailer in the Swinoujscie LNG Terminal.



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Earthling reel	1 units 15 m self-coiling. ATEX
Earth point on chassis	2 units
Landing leg	JOST, capable of supporting the tank at full load
Fire extinguisher	2 units x 9 Kg extinguishers in box
Plugs – Truck connections	24V according to ADR, 1x15 with ISO12098 connection
Interlock Emergency functioning protocols	Anti-tow away system (activated when the cabin door is opened / deactivated when the cabin door is closed. The system is disengaged at a speed over 8 km/h. The active speed limit of the anti-tow away system is between 0 and 8 km/h.

1.7. CABINET

Material	Aluminium
Location	On CENTRAL part of the tank
Door system	Upwards, self-supported coach
All P&ID diagram	Included

1.8. OTHER EQUIPMENT

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1.9. PAINTING

Sand blasting treatment:	SAE 2,5
Preparation	Zinc enriched epoxy layer
Finished:	Two component acrylic paint, 2 layers Total thickness 120µ
Tank:	White color RAL 9016
Chassis:	RAL color to be Indicate – no metallized
Cabinet:	RAL color to be indicate – no metallized
Reflective Marking places:	Included according to norm V-23
Customer Logo:	NOT Included



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2.5. OFFER VALIDITY

- This offer is valid for 15 natural days from document date, due to international COVID impact and raw materials market changing conditions.

ANGLESOLA, November 2nd, 2023

Signature:

Jordi Segura Morancho

Sales Director Europe



CUSTOMER ACCEPTATION

PIOTR BLOCH

Piotr Bloch





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2. COMMERCIAL TERMS

2.1. ECONOMICAL OFFER

- Price EXW (as per incoterm 2020) ANGLESOLA (Spain) for one unit according to our technical description is:

Item	Price (€/unit)
LNG Cistern 7 bar (Without Pump)	239.900,00
Additional line for charging by external vaporizer, additional DN-50 connection with double valve (V16+V17)	Included
TOTAL AMOUNT	239.900,00

2.2. PAYMENT TERMS

- 20 % By Bank wire transfer: Advanced payment at order confirmation (starting from reception of payment).
- 70 % By Bank wire transfer once manufactured and before delivery.
- 10 % After registrations of the semitrailer and start of the first loading/reloading. No later than 1 month (30 days) from that moment.

2.3. DELIVERY TERMS

- This quotation is for the delivery of ONE (1) LNG Semitrailer in 2-3 MONTHS from order confirmation and reception of advanced payment.
- Delivery conditions according to: FCA Anglesola 25218 (Spain) Incoterms® 2020.

2.4. WARRANTY

- One-year warranty by Indox standards. Check last page Warranty Conditions.
- We include 5 years vacuum warranty, as long as an annual vacuum review and inspection is carried out at Nexter Color facilities located in POLAND, the costs of which will be assumed by the client. To maintain this 5-year warranty, the customer is obliged to send a proof document to the manufacturer (Indox), confirming the annual inspection has been carried out.



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WARRANTY CONDITIONS

01-Warranty period:

01-01- The warranty period of equipment manufactured by INDOX ENERGY SYSTEMS S.L., hereinafter referred to as INDOX, is twelve (12) months from the date stated on our delivery note to the first buyer. Unless other conditions have been established in writing in the body of the contract.

01-02- Under no circumstances shall the actions covered by the warranty have the effect of extending the warranty beyond the agreed terms

02- Scope of warranty:

02-01- This warranty covers only equipment manufactured by INDOX, covering labor and boiler materials. Equipment from outside suppliers to INDOX are excluded, and would be subject to the warranty criteria and conditions of the manufacturer of that item (e.g. axles, pumps, valves, etc.). Any delivery of materials that fall under the warranty will be covered under FCA conditions according to INCOTERMS 2020.

02-02- The warranty on parts not manufactured by INDOX will be applied exclusively to parts recognized as defective by the supplier's own technical support after all associated problems have been taken into account. The application of the warranty consists in delivering new parts to replace defective ones or repairing them, according to the supplier's own technical support. Replacement costs and/or repairs that arise are excluded from the scope of the warranty. To be accepted under warranty, the customer agrees to return the damaged or defective material via post at his/her own cost within fewer than 10 days of receipt of the new part for further analysis with the supplier; otherwise, an invoice will be issued for this material.

02-03- This warranty extends only to the first owner of the unit and cannot be transferred without the written consent of INDOX.

02-04- INDOX assumes no liability for damages and losses that may arise from defects found in parts or in the construction of equipment, even in cases where an accident has occurred, being limited only to the application of the warranty conditions. Under no circumstances will consideration be given to or liability or charges accepted for direct or indirect damage to third parties, consequential losses, loss of profits or interruption of business activity, or cases considered to be force majeure.

02-05- Items not covered by the warranty include: wear due to use, general checks and inspections, adjustments, accidents, overturning, vaporization of tanks and degasifications, staff travel, transportation to workshop, towing or the consequences of immobilizing the vehicle.

02-06- If the repair is to be carried out anywhere other than at our workshops, then travel, accommodation and meal-allowance costs incurred by our staff shall be borne by the customer.

02-07- Any damage caused by lack of cleaning, both internal and external, as well as that arising from misuse or negligent use of the equipment under conditions other than those specified during the sale are excluded from the scope of the warranty.

02-07- During the warranty period, the customer is required to cover the costs of the maintenance operations detailed in the manuals for each piece of equipment, in an authorized workshop or previously recognized official service provider in the area. INDOX reserves the right to decline the equipment warranty upon detection of a failure to maintain the equipment and its component parts.

03- Cancellation of warranty:

The warranty is considered cancelled and void automatically and in full when:

- The buyer-user has not made payments within the deadlines set down in the purchase order or sale contract.
- The buyer-user uses the equipment for a service other than the one for which it is intended.
- The buyer-user does not follow the instructions for use, cleaning, lubrication and maintenance specified for each piece of equipment, i.e. improper use.
- The buyer-user makes modifications to the equipment without the consent of INDOX.
- The buyer-user does not return the defective or damaged material to INDOX.

04-Application and processing of warranty:

04-01- Any defect that involves activating the warranty must be made known to INDOX.

04-02- To qualify for any actions under the warranty, the equipment should be necessarily serviced at the INDOX factory by a qualified technical support technician, or in an authorized workshop or recognized official service provider in the area. The request shall always be made by the customer in writing (fax, e-mail, post) by sending the duly completed warranty claim form, which should include any attached photographs and reports. Requests can be made by telephone only in the case of emergencies and must subsequently be ratified by one of the forms of communication stated above within 24 hours.

