



Co-financed by the European Union  
Connecting Europe Facility



Republic  
of Poland



Rumia, 01.10.2018

## REQUEST FOR PROPOSAL

In connection with the implementation of the project entitled **“Construction of a pilot docking station as part of the LNG distribution system based on cryogenic tank containers”**, which received funding from the Connecting Europe Facility Instrument, we invite you to submit offers related to the implementation of supplies covered by this project.

The aim of the project is to design, build and carry out pilot studies of the LNG docking station located in the 40' container frame. Three ISO 20' cryogenic container tanks will be connected to the station.

The main task of the station will be the long-term maintenance of safe technical parameters of intermodal, cryogenic LNG container tanks. This will enable further distribution of LNG to end customers using numerous means of transport (including transport by rail, inland waterway and sea, which has not been used for these purposes so far).

Additionally, the station will be equipped with one LNG distributor and one LCNG distributor. The pilot station will be located in Poland in the vicinity of the key transport routes of the TEN-T corridor.

### I. Ordering entity

**Remontowa LNG Systems Sp. z o.o.**

84-230 Rumia, st. Jana III Sobieskiego 42 ,

NIP: 958-000-39-70

#### Contact person

Name and surname : Jakub Turek

E-mail : [j.turek@rls.rh.pl](mailto:j.turek@rls.rh.pl)

Note: Contact for questions or explanations is only possible via e-mail.

Information and explanations relating to the tender can be obtained from Monday to Friday from 7.00 a.m. to 3.00 p.m. (UTC+1:00).

### II. Subject of the order

The subject of the order is the delivery of the equipment described in points a. to h. with which the docking station will be equipped and the documentation described in point 'i', taking into account the guidelines.

**The Ordering Party expects that the deliveries being the subject of the order (taking into account all the elements indicated in point II of the Request), will be realized within a maximum period of 22 weeks from the date of signing the contract.**



Guidelines on the subject of the order:

- LNG line pressure maximum 10 bar and CNG" line 330bar.
- The outside air temperature range should be assumed to be  $-20^{\circ}\text{C} \div 40^{\circ}\text{C}$ .
- If the units are equipped with flanged connections or pipes, an additional advantage would be their execution in the EN standard.
- Equipment where the working medium is LNG should meet the requirements of the current ISO 16294 standard and the standards referred to therein.
- Equipment where the working medium is CNG should meet the requirements of the current ISO 16293 standard and the standards referred to therein.
- All pressure equipment should meet the requirements of the PED Directive 2014/68/EU.
- Devices operating in the explosion zone should be certified for compliance with the ATEX directive.

a. One (1) LNG Dispenser

Complete LNG dispenser should enable fuelling of passenger vehicles and trucks with cold and saturated LNG, with a nominal capacity of 160 l/min and maximum pressure suitable for saturated LNG. Nitrogen will be used as instrument air.

LNG dispenser to be supplied with:

- Earthing clamp, air gun, and break-away system,
- Redundant over-pressure protection during the filling,
- Standardized inlet connection inside of the dispenser,
- Heated receptacle to prevent ice forming,
- Display unit with Polish language markings of price, quantity, price / quantity,
- Coriolis flow meter, complied with MID directive,
- MODBUS connection,
- Flexible hoses and nozzles,
- Payment system communicated through IFSF system,
- ESD and dead man button,
- Inlet / outlet connections on the side of the dispenser.

The LNG dispenser should be controlled by and integrated with the station's automatic system. It is required that the device complies with PED directive 2014/68 / EU, ATEX, and should be marked by the CE sign. Maximum dimensions of the set 2.0 x 0.8 x 2.1 [m] (length x width x height). The device should be operated by 230V / 50Hz and work in ambient temperature from  $-20$  to  $40^{\circ}\text{C}$ . The payment system should enable payments in PLN currency. The offer should include delivery of spare parts for 12 months of normal operation.



b. One (1) LNG Centrifugal pump

Complete submerged centrifugal LNG pump in the sump for LNG section with a flow up to 320 l/min and pump head up to 350 m for the LNG section. The pump motor should be connected to a Variable Frequency Drive to adjust the speed and keep required pressure and flow for LNG dispenser and other Docking Station operations.

The technical requirements for the LNG pump:

- Max suction pressure: 12 bar,
- Max flow: 320-360 l/min,
- Max differential head: 320-350 m.

The pump should be supplied with:

- Suction filter,
- Vacuum insulated pump barrel,
- Safety equipment,
- Thermal relief valves,
- Temperature and pressure transmitters and gauges,
- Instrumentation to control the pump (differential pressure discharge, pressure and cooling down control),
- LNG suction line, discharge line, sump return line, by-pass line, vent line and other lines needed to ensure proper work of pump integrated into the docking station,
- Discharge lines automatic valves,
- Flexible connections to the pump,
- Purge connection,
- Check valves and pneumatic operated valves,
- Junction box.

The pump should be controlled and integrated with the station's automatic system. Electrical connections should be collected in a junction box. It is required that the device complies with PED directive 2014/68 / EU, ATEX, and should be marked by the CE sign. The device should be operated by 400V / 50Hz and work in ambient temperature from -20 to 40°C. The offer should include delivery of spare parts for 12 months of normal operation.

c. One (1) High pressure piston pump

Complete piston pump for LCNG section of maximum flow up to 24-25 l/min, working pressure not less than 330 bar and NPSH not more than 1 m.

The pump should be supplied with:

- Safety equipment, low and high pressure relief valves,



- Pulsation dampers,
- Temperature and pressure transmitters,
- Suction filter,
- Vent line (Vapor-liquid separator),
- Suction, return, discharge lines,
- Flexible connections to the pump,
- Purge lines and connections
- High pressure vent valve,
- Junction box,
- Automatic suction and return valve,
- Instrumentation to control the pump, differential pressure and cool down the temperature,
- None-return valve,
- Vacuum insulated cold end.

The pump should be controlled and integrated with the station's automatic system. The device should be operated by 400V / 50Hz and work in ambient temperature form -20 to 40°C. It is required that the device complies with PED directive 2014/68/EU, ATEX, and should be marked by the CE sign. The offer should include delivery of spare parts for 12 months of normal operation.

d. One (1) Electrical heater

The device is supposed to support the high pressure ambient air vaporizer with electric power suitable to ensure proper CNG temperature in conditions of ambient air temperature -20°C. The device should be able to work in ambient temperature form -20 to 40°C.

The equipment should ensure the temperature of the medium in an outlet is minimum -15°C. It is required that the device complies with the PED 2014/68 / UE, ATEX and should be marked by the CE sign. The electrical heater should be controlled and integrated with the station's automatic system. The offer should include delivery of spare parts for 12 months of normal operation.

e. One (1) CNG pressure, temperature and transfer control panel

The CNG control panel should control the line as well as the buffer section pressure. It will be installed before the buffer section and CNG dispenser. The temperature and the pressure will be measured to control the process of filling the buffer cylinder section and CNG transferred to the CNG dispenser. The CNG control panel should be supplied with a pressure regulator to control the right pressure at CNG dispenser. The buffer panel will control the buffer capacity in order to open/close automatically the gas valve to the buffer storage.

The buffer control panel should be supplied with:



- Pressure and temperature measuring equipment and gauges,
- Safety equipment,
- Piping and connections,
- Odorizer inlet,
- None return valves,
- Connections for the line inlet, CNG dispenser, and buffer outlets.

The device should be operated by 230V / 50Hz and work in ambient temperature from -20°C to 40°C. It is required that the device complies with PED directive 2014/68/EU, ATEX, and should be marked by the CE sign. Control panel should be controlled and integrated with the station's automatic system. The offer should include delivery of spare parts for 12 months of normal operation.

f. One (1) Gas odorant system

The system should be connected with the CNG line and inject THT odorant into the line with compressed natural gas.

The gas odorant system to be supplied with:

- Dosage pump,
- Piping and connections,
- Valves,
- Hoses with quick couplings for connection to an odorizing barrel,
- Buffer tank,
- Calibration device,
- Suitable to serve CNG section with flow parameters based CNG flow,
- Safety equipment.

It is required that the device complies with PED directive 2014/68/EU, ATEX, and should be marked by the CE sign. Work in ambient temperature from -20°C to 40°C. Maximum dimensions of the board 0.6 x 1,0 [m] (length x width). The offer should include delivery of spare parts for 12 months of normal operation.

g. One (1) LNG Saturation system

Saturation system allowing to warm up the LNG from -162°C to the correct saturation temperature and pressure. Saturation system should operate during the liquid transfer to the LNG dispenser. The system should allow refuelling saturated LNG with the capacity to 160l/min.

The LNG saturation system should be supplied with:

- Automatic valves,



- Electric components to control system,
- Measuring devices,
- Internal piping and connections,
- Temperature probes.

The device should be operated in ambient temperature form -20 to 40°C. It is required that the device complies with PED directive 2014/68/EU, ATEX, and should be marked by the CE sign. Saturation device should be controlled and integrated with the station's automatic system. The offer should include delivery of spare parts for 12 months of normal operation.

h. One (1) Electrical cabinet and automation system

Electrical cabinet should be supplied with:

- power distribution,
- I/O cards,
- PLC,
- industrial PC for data recording,
- DSL modem,
- 12" monitoring touch screen to control equipment.

There should be an additional free space in the cabinet enabling integration of extra equipment. The network standard should be TN-S.

The automation system will be integrating with the equipment installed in the station including pumps, dispensers, cryocooler, storage tanks, buffer tanks, CNG section valves, LNG section valves, etc.

The automation system will control:

- Automatic valves,
- Pumps,
- CNG/LNG dispensers,
- CNG buffer panel,
- Cryocooler,
- Saturation system,
- Other equipment installed in the station,
- Pressure switch for a minimum air-instrument check,
- ESD buttons on the docking station,



- 5 free SIL1 entries for customer ESD,
- Ethernet modem 3G or 4G (ADSL),
- LNG storage tanks,

Integration of the LNG tanks monitoring and automation system with docking station equipment automation system will be confirmed and agreed with the contractor of the automation project.

The electric cabinet will be installed in a 10' container size control room in the non-explosive area. Electrical specification: 400/50Hz and operating temperature of 0 to +40°C. Software license to access to the remote monitoring should be ensured by the manufacturer. The offer should include delivery of spare parts.

i. Documentation

List of required documentation (provided in English):

- General arrangement drawings,
- 3D models of equipment,
- Wiring diagrams and cable lists,
- Input and output signal lists,
- P&ID,
- Inspection and test plan, checklists,
- Electrical documentation,
- Spare parts list,
- Cause and effect diagrams,
- User manuals and maintenance handbooks,
- Quality documents,
- Bill of material,
- Pressure test reports, leak test reports,
- PRV pressure setting certification,
- FAT protocols,
- Equipment lifting procedures,
- Commissioning report,
- Quality and control Databook,
- Setpoint list,
- Certification.



### a. Acceptance, warranty, service and certification

Devices within the scope of delivery shall be covered by the warranty and service. The equipment supplier shall ensure the participation of its service technician before and during the commissioning of the installation. The equipment supplier shall conduct operational training in basic maintenance activities of the equipment. The Supplier shall provide the Ordering Party with free telephone technical assistance during the warranty period.

The Supplier shall be obliged to participate in the HAZOP session of the docking station free of charge within a pre-determined period of two days. The offer should include the costs of certification and transport of the equipment to the Ordering Party's registered office. The Ordering Party requires that the minimum declared warranty period for equipment is at least 1 year from the date of signing the protocol of equipment acceptance. The length of the warranty period is one of the tender evaluation criteria - the way of evaluation is described in point VIII of this Request for Proposal. The required response time within the warranty period is 5 working days from the date of defect notification.

### b. Category of order

Category of order: deliveries

**CPV – Common Procurement Vocabulary:**

44000000-2 Structural products

## III. Explanations concerning the content of the invitation to tender

The Contractor may request the Ordering Entity to clarify the content of the Invitation. The Ordering Entity shall provide explanations immediately, **not later than 2 days before the deadline for submission of tenders**, provided that the request for clarification of the Invitation content was received by the Ordering Entity not later than by the end of the day on which half of the deadline for submission of tenders expires.

The content of the enquiries together with explanations (without disclosing the source of the inquiry) will be made available by the Ordering Entity on its website: <http://www.rls.rh.pl>, and will be made public in the Official Journal of the European Union.

## IV. Conditions for participation in the tender

1. Contractors who meet the conditions for participation in the tender may apply for the award of the contract:
  - the duration of the tenderer's activity must not be less than 5 years,
  - in the last 5 years before the deadline for submission of tenders, have carried out in the European Union at least five orders consisting in the performance of:





**supply of elements of CNG or LNG or LCNG refueling facilities, used for propulsion of means of transport, confirmed by references (the scope of supplies similar to the scope covered by this Request)**

The assessment of the above mentioned conditions will be made in accordance with the formula "meets - does not meet", based on information contained in documents (references) and statements submitted with the tender or following a call by the Ordering Entity (call for clarification or supplementation of the tender).

2. The following shall be excluded from the tender procedure:

- Contractors affiliated with the Ordering Party in person or in terms of capital. Capital or personal relations shall be understood as mutual relations between the beneficiary or persons authorised to incur liabilities on behalf of the beneficiary or persons performing on behalf of the beneficiary activities related to the preparation and performance of the procedure for selecting the contractor, consisting in particular in the following:
  - participation in a partnership as a partner,
  - holding at least 10% of shares or stocks,
  - performing the function of a member of the supervisory or management body, proxy,
  - being married, in a relationship of kinship or affinity in a straight line, second degree relationship or second degree affinity in a collateral line or in an adoption or guardianship relationship.

3. Foreign contractors

The Ordering Entity shall allow entities having their registered office outside the territory of the Republic of Poland to participate in the procedure.

4. Joint competition for the award of contract

The Ordering Party allows for joint bidding of Contractors for the award of the contract (consortium). In case of participation of a consortium in the contract award procedure, the Ordering Party requests from the consortium:

- a power of attorney to represent them in the course of proceedings or to represent them in proceedings and to enter into an agreement and perform the contract,
- a declaration of joint and several liability of consortium members for non-performance or improper performance of the contract.

Before the date of conclusion of the agreement, the agreement regulating the principles of consortium cooperation shall be delivered to the Ordering Party. The consortium agreement cannot be terminated before the completion of the task.

5. In connection with the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing



of personal data and on the free movement of such data and the repeal of Directive 95/46/EC (hereinafter referred to as the GDPR), we would like to inform you that we have included an information clause on the protection of personal data in the annex to the request for proposals. Suppliers/contractors are obliged to acquaint themselves with the content of the information clause. The Supplier/Contractor/Subcontractor/third party is obliged, when collecting personal data for the purpose of participation in the procedure, to comply with the information obligation resulting from Articles 13 and 14 of the GDPR with respect to natural persons from whom the personal data relate and from whom the data were obtained directly.

In order to ensure that the Supplier/Contractor has fulfilled the aforementioned information obligations and to protect the legitimate interests of a third party whose data has been provided in connection with the Supplier/Contractor's participation in the procedure, the Supplier/Contractor is obliged to submit in the procedure a declaration that it has fulfilled the information obligations provided for in Article 13 or Article 14 of the GDPR. The declaration constitutes an element of the Tender Form.

## V. Place and method of submission of tenders

1. The tender shall be submitted to the following e-mail address [oferty@rls.rh.pl](mailto:oferty@rls.rh.pl)
2. **The tender must be submitted by 16.10.2018 by 03.00 PM (14 days after the publication of the invitation).**
3. Offers submitted after the deadline will not be considered.
4. Tenders sent in another form or not containing the Form and its annexes will be rejected for formal reasons.
5. No partial or variant tenders may be submitted.
6. The Tenderer may, before the deadline for the submission of tenders, amend or withdraw its tender.
7. In the course of the examination and evaluation of tenders, the Ordering Party may request explanations from tenderers concerning the content of submitted tenders and/or provide additional documents.
8. This tendering procedure may be cancelled, terminated without the selection of the tenderer, and nullified both before and after the selection of the most advantageous tender, without giving any reason.
9. Required tender validity period: at least 30 days from the date of submission of the tender.
10. The Ordering Party reserves the right to consult and negotiate prices before signing a contract with a selected contractor.
11. The Ordering Party allows the use of standards equivalent to those listed in the course of the invitation. Application of the standards should not be contrary to the Polish and EU regulations in force.

## VI. Description of how to prepare and submit tenders

1. The Contractor may submit only one tender in this procedure.
2. The offer must be made in Polish or English, in writing, otherwise being null and void, and must include at least the following statements and documents:
  - a) Tender Form – **Appendix No. 1,**
  - b) Statement on meeting the conditions of participation in the tender – **Appendix No. 2,**



- c) In case of tender submission and certification for conformity with the original copies of documents by a person not mentioned in the registration document, the Contractor shall be obliged to attach an appropriate power of attorney in the original or a copy certified by a notary public. It is assumed that a power of attorney to submit an offer also authorizes to certify copies of all documents submitted with the offer as true copies, unless the power of attorney states otherwise.
- d) In case of submission of an offer by the Consortium - the Consortium agreement.
- e) Documents confirming the Tenderer's technical ability to perform the subject of the order (in the form of five references).
- f) Anti-corruption clause + declaration.

## VII. Description of price calculation

1. The tender price must be expressed in EUR.
2. The price of the offer must include all costs necessary for the proper execution of the order.
3. The price of a tender should be set at a gross amount, including VAT and excise tax, if, under applicable law, the sale of the offered object of the contract (goods/services) is subject to such taxes.
4. The correct determination of the VAT rate shall be the Contractor's responsibility. When calculating the tender price, the Tenderer is obliged to apply the VAT rate in accordance with the legal regulations in force on the date of submission of tenders.
5. The price must be calculated and rounded to two decimal places (rule of rounding - less than 5 must be omitted, above and equal to 5 must be rounded up).
6. The Contractor submitting a tender informs the Ordering Party (by submitting a declaration in the tender form or another declaration) whether the selection of the tender may lead to a tax burden for the Ordering Party, indicating the name (type) of goods or services in which the supply or service will lead to its creation, and shows their value without tax.
7. The Ordering Party agrees that the applicable type of remuneration shall be a lump sum.

## VIII. Tender evaluation

### Evaluation criteria and description of the scoring method

1. The Ordering Party shall evaluate valid tenders that meet the conditions for participation in the tender procedure.
2. The Ordering Party will select the most advantageous tender on the basis of the following criteria:

- a) Criterion K1 "Gross price" (weight 70% - max. 70 points).

The scores in criterion K1 "Gross price" (price including all costs related to the execution of the subject of the order) shall be made on the basis of the total gross tender price indicated by the Contractor in the tender and converted according to the following formula:

$$K1 = \frac{\text{The lowest gross price of all non-rejectable tenders}}{\text{Gross price of the evaluated offer}} \times 70 \text{ points}$$

- b) Criterion K2 "Length of warrant period" (weight 20%– max. 20 points).



The tenderer shall specify the warranty period in years.

The required length of the warranty period for performed services is 1 year from the date of signing the final delivery protocol.

The scoring in criterion K2 "Length of warrant period" will be calculated as follows:

- If the Contractor offers one year of warranty in the submitted tender, then K3= 10 points.
- If the Contractor offers two years of warranty in the submitted tender, then K3= 15 points.
- If the Contractor offers three years of warranty in the submitted tender, then K3= 15 points, then K3= 20 points.

c) Criterion K3 "Response time during the warranty period" (weight 10% – max. 10 points).

The tenderer determines the response time to the warranty claim in working days.

The required response time within the warranty period is 5 working days from the date of defect notification.

The scoring in criterion K3 "Response time during the warranty period" will be calculated as follows:

- If the Contractor offers five days response time in the submitted tender, then K2= 6 points.
- If the Contractor offers four days response time in the submitted tender, then K2= 8 points.
- If the Contractor offers three days (or less) response time in the submitted tender, then K2= 10 points

3. The tender evaluation shall be carried out by the Ordering Party's committee.
4. The most advantageous tender will be considered to be the one which will receive the highest number of points in total.
5. The evaluation of tenders will be made on the basis of the Contractor's statements and information presented in the tender form.
6. The points awarded to the tenders in each criterion will be counted to two decimal places. The highest number of points will determine the most advantageous offer.
7. The sum of points (S) possible to obtain by the studied offer will be calculated on the basis of the following formula:  $S = K1 + K2 + K3$ .
8. In the event that the Tenderers receive the same number of points, the Ordering Party will decide between the most economically advantageous tenders and choose the most advantageous tender in terms of environmental and climate impact.
9. In case when the Tenderer, whose offer was selected, evades the conclusion of the contract, the Ordering Party may choose the most advantageous offer among other offers.

## IX. Appendixes

1. Appendix No. 1: Tender Form.
2. Appendix No. 2: Declaration on the lack of relations with the Ordering Party.
3. Appendix No. 3: draft of agreement + conditions of cooperation.
4. Appendix No. 4: Anti-corruption clause + declaration.



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5. Appendix No. 5: Rules and obligations of the supplier according to the procedures of the Innovation and Networking Executive Agency