

Elbląg, 18/08/2022

### **Request for proposal**

regarding the selection of a supplier for delivery of a set of carbon fiber yarns and textiles

According to the contract concluded with the Polish Agency for Enterprise Development for co-financing of Project no. POPW.01.01.02-28-0014/20 on the implementation of the project titled „*Specialist production of composite high-pressure tanks, especially for hydrogen*” by the company Hydrogen Alfa Sp. z o.o. under the Operational Program Eastern Poland 2014-2020, Priority Axis I: Entrepreneurial Eastern Poland, Measure 1.1. Startup platforms for new ideas, Sub-measure 1.1.2 Development of startups in Eastern Poland, we invite you to submit an offer that will allow us to select a supplier under the aforementioned project.

#### **1. Ordering Party:**

Hydrogen Alfa Sp. z o.o.  
Sulimy 1/226 Street  
82-300 Elbląg  
NIP: 7393935339

Obtaining additional information about the proposal:

Contact person: Bohdan Bogucki  
tel. +48 601 611 717  
e-mail: [bobo49@wp.pl](mailto:bobo49@wp.pl)

#### **2. Information about the project**

The project involves the design and construction of prototypes of composite pressure vessels made in the technology of type III and IV, i.e. having either an aluminum internal tank or a plastic tank, constituting a barrier to the fluid stored inside (gas, liquid, or supercritical state) and external structural reinforcement in the form of a braid, responsible for maintaining the internal pressure of the fluid by means of a composite layer consisting of e.g. carbon fiber and epoxy resin. The design of the tank may include additional structural elements made of metal, including fittings. The working pressure provided for the operation of such tanks is in the range of 20-100 MPa. As part of the project, two configurations of pressure vessels will be made: cylindrical and multi-chamber (flat). Both designs differ in terms of their production tooling and require different devices: the cylindrical tank of the stretching press, previously woven carbon fiber sleeve, a flat tank, devices for wrapping with carbon fabric, and industrial robots - manipulators for stretching the fiber surface with screws. Each of these devices requires its implementation as part of the project, they are unique and have no equivalent on the market. Both tanks require an internal pipe, which strengthens the structure of the tank during its construction and serves as its fixing point during operation. Each inner tube is equipped with two machined end holes for valves, internally threaded to the size of the valve. Such pipes require an internal thread turret lathe, which is also required to produce the flanges fitted to each pipe. As a result of the project, prototypes of pressure vessels will be created on a small scale, but the entire procedure of their implementation will be applied, including pressure testing. The experience gained during experiments with prototypes will allow for the implementation of the target tooling for production.

### 3. Purpose and subject of the request for proposal

The purpose of the request for proposal is to select the supplier of a set of carbon fiber yarns and textiles, both dry and impregnated (prepreg).

#### Request for proposal material scope:

The subject of the present inquiry is a set of goods made of carbon fiber filaments, as follows:

#### 1. in a **dry embodiment**:

- the tow-spread yarn 24k or 50k on a spool, some 2-3kg,
- the fabrics UD 0° 24k, with thin polypropylene stitch yarn or so, a roll of 50m or 100m, the width of roll 1.27m to 1.5m,
- the fabrics type plain 1/1, 0°/90° 24k/24k, a roll of 50m or 100m, the width of roll 1.27m to 1.5m,
- the braided sleeve -45°/+45°, 24k/24k, ø120mm, flat 188mm, punch of 50m or 100m,
- the mixed carbon/aramid braided sleeve -45°/+45°, 24k/3-4\*3000T or so, ø120mm, flat 188mm, punch of 50m or 100m,

#### 2. in the **impregnated embodiment** (prepreg) with epoxy resin content <40%:

- the tow spread yarn 24k or 50k on the spool of some 3-5kg,
- the fabrics UD 0° 24k, with polypropylene stitch yarn or so, a roll of 50m or 100m, the width of roll 1.27m to 1.5m,
- the fabrics type plain 1/1, 0°/90° 24k/24k, a roll of 50m or 100m, the width of roll 1.27m to 1.5m,
- the fabrics type twill 2/2, -45°/+45° 24k/24k, a roll of 50m or 100m, the roll width 1.27m to 1.5m.

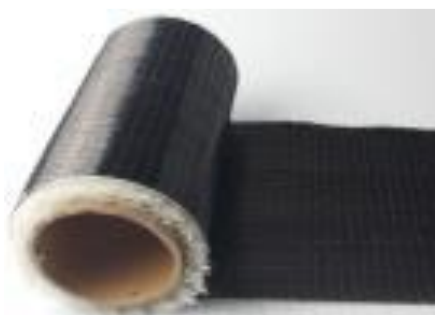
The proposed carbon fiber should be of the Torayca® T700SC type or other, with similar properties, but for another fiber, it cannot be lower for ultimate tensile strength than UTS > 4.9GPa. The resin used for the initial impregnation of the fiber must have properties that allow it to be stored at ambient temperature for at least 1 month, and after freezing to -18°C for at least 6 months.

The carbon fiber filament should have a certificate issued by the manufacturer for a given batch of the material from which the yarn, braid, or fabrics of technical material is made, specifying the production date, composition, and weight expressed in [g/m<sup>2</sup>] and other basic characteristics of the fiber.

Materials impregnated with epoxy resin should include the composition, percentage of resin content, weight of the material expressed in [g/m<sup>2</sup>] and the type of resin used, its storage, and curing method: temperatures, gradients, time.

Each proposed item in the scope of the inquiry should have a separate price expressed in the currency of payment and the terms of trade/delivery according to INCOTERMS 2020 and indicate the method of packing individual materials, their weight, and volume.

This inquiry relates to all of the items listed above or any part of them.



Presented above are pictorial drawings only. Offers should include technical specifications and the dimension, weight, and packaging volume of the subject of the offer.

**RFP Category: Delivery**

**RFP Subcategory: Other deliveries**

**Place of order fulfillment:** Voivodship: warmińsko-mazurskie, County: Elbląg, City: Elbląg

**CPV code:** 19442200-8 Synthetic yarn, 19211000-8 Synthetic fabrics

**4. Term of the contract:** 3 months

**5. Schedule for the implementation of the subject of the RFP:**

Planned commencement date of the implementation of the contract subject: 01.09.2022.

The deadline for completing the subject of the contract is no longer than 31.12.2022.

The detailed delivery schedule will be determined by the Ordering Party in consultation with the selected Contractor.

**6. Conditions for significant changes to the contract concluded as a result of RFP procedure:**

The Ordering Party allows the possibility of changing the concluded Agreement in relation to the content of the offer, on the basis of which the Contractor was selected in the scope of:

- 1) change of the Contractor's data or a change resulting from the transformation of the subject on the part of the Contractor,
- 2) changes in the price resulting from changes in the applicable VAT rates or the introduction of new taxes to the extent resulting from these changes.
- 3) in justified cases, changes in the deadlines for the implementation of individual tasks.
- 4) in justified cases, changes to the date of completion of the subject of the contract.

The Ordering Party also reserves the right to amend the Agreement in the event of:

- 1) changes in the applicable provisions of law affecting the subject and terms of the Agreement,
- 2) the emergence of extraordinary circumstances which are "force majeure", resulting in the impossibility of the implementation of the subject of the Agreement or a threatening gross loss, which the parties did not foresee when concluding the Agreement, whereby "force majeure" is understood as extraordinary, unforeseeable events and circumstances, independent of the will and intention either party to the Agreement.

The above-mentioned changes may be made at the request of the Ordering Party or the Contractor, with the consent of both parties, and will be introduced to the Agreement in the form of an annex.

#### **7. Obligatory conditions for participation in the tender procedure**

1. Possession of authorizations to perform a specific activity, if the provisions of law impose an obligation to have them (or - if applicable - to dispose of persons having such authorizations).
2. Having appropriate knowledge and experience, allowing for the correct implementation of the contract.
3. Having the appropriate technical potential and cadre able to properly perform the contract.
4. Remaining in the economic and financial situation enabling uninterrupted and proper execution of the contract.
5. Experience in carrying out at least 10 deliveries of equipment that is the subject of the RFP or a similar one for an amount not lower than 50 000,00 PLN. The Ordering Party reserves the right to request additional documents confirming that this criterion is met.

The above criteria will be verified on the basis of Tenderers' declarations.

#### **8. Requirement of impartiality. The conflict of interest is unequivocal with the exclusion of the tenderer from the request for proposal procedure.**

The following are excluded from the RFP procedure:

- 1) Tenderers related personally or by capital with the Ordering Party. Capital or personal ties are understood as interrelationships between the Ordering Party or persons authorized to incur obligations on behalf of the Ordering Party or persons performing on behalf of the Ordering Party activities related to the preparation and conduct of the RFP procedure and the contractor, in particular:
  - a) participation in the company as a partner or partnership;
  - b) possession of at least 10% of interests or shares;
  - c) being a member of the supervisory or management board, management proxy, proxy;
  - d) being married, in the relationship of kinship or affinity in a straight line, kinship or affinity in the collateral line up to the second degree, or in relation to adoption, guardianship, or custody.
- 2) Tenderers who fail to demonstrate in the declaration that the obligatory conditions for participation in the procedure are met.

A tender submitted by an entity fulfilling the definition of the entity linked with the Ordering Party shall be deemed to have been rejected.

#### 9. Criterion for the selection of tenders:

A maximum of 100 points can be awarded in accordance with the selection criteria described below.

Evaluation criterion:

- **Net price (95%)**

Points awarded according to:

- tender with the lowest net price receives 95 points,
  - remaining tenders are awarded points according to the following arithmetic formula  $95 \times (X \div Y)$ , where: X = lowest price, Y = price of evaluated tender.
- **Contract completion date, i.e. the period (expressed in weeks) from the conclusion of the contract to the delivery of the subject of the contract, no longer than 13 weeks (5%)**

Points awarded according to:

- Tender with the shortest waiting period for delivery receives 5 points,
- Remaining tenders are awarded points linearly according to the following arithmetic formula  $5 \times (X \div Y)$ , where: X = the shortest waiting period for delivery (expressed in months), Y = waiting period for delivery (expressed in months) of the evaluated offer

As a result of the analysis of the received tenders, the final supplier contract will be selected, which will be the entity whose offer will receive the highest number of points, calculated in the manner indicated above. During the analysis of the offers, the Ordering Party may ask the tenderers for additional information or a meeting at the company's headquarters in order to clarify any ambiguities regarding the submitted offers. The offers will be assessed on 26.08.2022, and the results and the selection of the winning offer will be announced on the website at <https://bazakonkurencyjnosci.funduszeuropejskie.gov.pl> under this inquiry.

#### 10. Legal criterion

- 1) The offer must be submitted on the form constituting Annex 1 to this request for proposal, containing a declaration on the fulfillment of the obligatory conditions for participation in the procedure and on the lack of personal or capital ties. The tenderer may change or withdraw his offer before the deadline for submitting offers.
- 2) The tender must be prepared in Polish or English
- 3) The offer shall be valid for a period of 90 days starting with the deadline for submission of tenders.
- 4) The price should be given in Polish currency (net and gross) or in foreign currency calculated based on the average exchange rate of the National Bank of Poland on the day of the tender submission. The tender price must be the final, total price, including all delivery costs in DDU INCOTERM 2020 terms, franco: 82-300 Elbląg, Poland. There is an allowed option to formulate FOB port/terminal terms of trade if abroad.
- 5) Different variants of the offer are allowed.
- 6) Partial offers are allowed.

- 7) The tender must be signed by an authorized representative of the tenderer.
- 8) The Ordering Party does not envisage any supplementary orders.
- 9) The Ordering Party reserves the right not to select any of the offers submitted as a result of this procedure.
- 10) The offer must be accompanied by a detailed technical specification of the offered product.

#### **11. Additional information**

- The Ordering Party reserves the right to close the request for proposal procedure without selecting any offers, at any stage of the procedure, without giving any reason. The Tenderers shall not be entitled to any claims against the Ordering Party on account of the above-mentioned actions.
- The procedure for submitting offers and selecting the best offer is not carried out pursuant to the Act of January 29, 2004 Public procurement law (Journal of Laws of 2017, item 1579, as amended). The procedure is conducted in accordance with the principle of competitiveness, as set out in the Guidelines on the eligibility of expenditure under the European Regional Development Fund, the European Social Fund and the Cohesion Fund for 2014-2020 and the Guidelines on the eligibility of expenditure under the Smart Growth Operational Program 2014-2020. The contract will be awarded on the basis of objective criteria, ensuring compliance with the principles of transparency, non-discrimination, equal treatment and ensuring that tenders are considered on a competitive basis.
- The Ordering Party does not provide for the reimbursement of costs of participation in the procedure.
- Tenderers are not entitled to any legal protection measures (protest, appeal, complaint) from the conducted proceedings, as specified in the provisions of the Public Procurement Law Act.

#### **12. Date and form of submitting tenders**

Deadline for submitting offers: 26.08.2022

Offers submitted after the above-mentioned deadline will not be considered. In the course of examination and evaluation of the offers, the Ordering Party may demand explanations regarding the content of the submitted offers from the Bidders.

Form of submitting offers:

- Electronic version (in the form of a signed scan) sent to the e-mail address **bohdan.bogucki@hydrogen-first.com**

Attachments:

Appendix No. 1 – Tender form