**Chapter 2**

**Forms relating to the Offer**

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| **Form 2.1.**  **OFFER** |

Proceeding reference: EZP.270.9.2025

With reference to the contract notice in the public procurement procedure conducted in an open tender mode entitled:

**Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

**I/WE, THE UNDERSIGNED**

name: ………………………………………………………………………………………………………..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

last name: …………………………………………………………………………………………………

basis for representation: ………………………………………………………………………

acting in the name and on behalf of the CONTRACTOR

*Note: in the case of a joint bid submitted by entities, provide the following data for all partners of a civil partnership or members of a consortium*

name (company): ………………………………………………………………………………………………………..

registered office address: ……………………………………………………………………………………………..

voivodeship: …………………………………………………………………………………………………………………

KRS number (National Court Register number): ……………………………………………………………

REGON number (National Economy Register): ………………………………………………………………

NIP number (tax identification number): ………………………………………………………………………

being a micro-enterprise \*

being a small business \*

being a medium-sized enterprise \*

running a sole proprietorship \*

being a natural person not conducting business activity \*

other kind \*

*\* please mark/indicate as appropriate*

*The definition of a micro, small and medium-sized enterprise can be found in Article 7 Article 7(1)(1), (2) and (3) of the Act of 6 March 2018 - Entrepreneurs' Law (consolidated text: Journal of Laws of 2021, item 162).*

1. **WE MAKE AN OFFER,** for the execution of the subject of the order in accordance with the Specification of Order Conditions for this procedure (SWZ).
2. **WE DECLARE,** that we have become familiar with the Specification of Order Conditions and the explanations and changes to the SWZ provided by the Ordering Party and we consider ourselves bound by the provisions and principles of conduct specified therein.
3. **WE OFFER** execution of the subject of the order for **the gross price\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PLN/EUR/USD** (in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ zloty/euro/dollars), in accordance with the description of the subject of the order, specified in Volume III of the SWZ and the Price Form attached to the offer (basic order and order with the right of option)

including:

* Net offer price for the execution of the basic (guaranteed) order: …………………………..PLN/EUR/USD, plus VAT at the statutory rate, gross: ………………PLN/EUR/USD (in words: ……………….zloty/euro/dollars),
* Net offer price for the execution of the order with option right: …………………………..PLN/EUR/USD, plus VAT at the statutory rate, gross: ………………PLN/EUR/USD (in words: ……………….zloty/euro/dollars),

*\*the total gross price consists of the gross offer price of the basic order and the gross offer price for the option right order*

If our offer is selected, the settlements should be paid to the bank account number …………………………… kept by ……………………………… (if this account number is not provided, the contractor will be obliged to submit a letter with the above information signed by an authorised representative of the contractor before concluding the contract.)

1. **WE DECLARE that the offered warranty period for the subject of the order is ............ months, from the date of final acceptance** (the minimum required warranty period for the subject of the order is 12 months from the date of final acceptance).
2. **WE INFORM**, that*[[1]](#footnote-1)*:
3. selecting the offer **will not**\* lead to the creation of a tax liability for the Ordering Party.
4. the selection of the offer **will**\* lead to the creation of a tax liability for the Ordering Party

* in relation to the following goods/services (depending on the subject of the order): ……………………………………………………………………….
* the value of goods/services (depending on the subject of the order) causing the Ordering Party's tax liability is ………………………………………………….. PLN (EUR/USD) net
* the value added tax rate of ……………………% which, to the Contractor’s knowledge, will apply.

1. **WE INTEND**[[2]](#footnote-2)entrust subcontractors with the execution of the following parts of the order:

........................................................................................................................................................................

1. **WE COMMIT** not to perform the contract using subcontractors, suppliers or entities on whose capacities are relied upon within the meaning of Directive 2014/24/EU, as referred to in Article 5k of Council Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine, where they account for more than 10% of the contract value.
2. **WE COMMIT** to complete the basic (guaranteed) **to 10 months from the date of conclusion of the contract and no later than 05th June 2026 *(due to the need to settle the project).***
3. **WE ACCEPT** payment terms specified by the Ordering Party in VOLUME II of the PPU.
4. **WE ARE** bound by the offer for the period specified in the SWZ.

In confirmation of the above, we have paid a deposit in the amount of ……………………………….. PLN in the form of ...................................................

The deposit should be returned by bank transfer to account no. ..................................................*(to be completed in case of a cash deposit)*

In the event of a deposit in a form other than money, a declaration of release of the deposit referred to in Article 98, Section 5 of the Public Procurement Law should be sent to the issuer of the guarantee or surety to the e-mail address …………..@......................... *(in the event of a deposit in a form other than money)*

1. **WE DECLARE,** that the information and documents contained in a separate, appropriately marked and named attachment ………….. *(provide the name of the attachment)* constitute a business secret within the meaning of the regulations on combating unfair competition, which we have demonstrated in the attachment to the Offer …………. *(provide the name of the attachment)* and we reserve that they cannot be made available.
2. **WE DECLARE,** that we have become familiar with the essential provisions of the contract specified in the SWZ and we undertake, in the event of selecting our offer, to conclude a contract in accordance with this offer, on the terms specified in the SWZ, at the place and time designated by the Ordering Party.
3. **WE DECLARE,** that we have fulfilled the information obligations under Article 13 or Article 14 of the GDPR[[3]](#footnote-3) towards natural persons from whom we have obtained personal data directly or indirectly in order to apply for a public procurement contract in this procedure and whose data have been transferred to the Ordering Party as part of the contract[[4]](#footnote-4).
4. **WE DECLARE,** that if, in the case of using personal data obtained in connection with the execution of the order, it will be necessary to conclude a personal data processing entrustment agreement, such an agreement will be concluded immediately before the acceptance of the entrusted personal data. The template of the entrustment agreement constitutes Attachment No. \_\_\_\_.”
5. **WE DECLARE,** that we meet all the requirements specified in the GDPR and ensure the use of technical and organizational measures to guarantee the security of personal data in connection with the conducted proceedings and the performance of the contract.”
6. **WE DECLARE**, that we are not an entity referred to in Article 5k of Council Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine, i.e.

a) a Russian citizen or a natural or legal person, entity or body located in Russia;

(b) a legal person, entity or body whose ownership rights are directly or indirectly more than 50% owned by an entity referred to in point (a) above; or

c) a natural or legal person, entity or body acting on behalf of or under the direction of an entity referred to in point a) or b) above.

1. **AUTHORIZED CONTACT** regarding the proceedings in question is:

Name and surname: .............................................................................................................tel. ................................................. e-mail: ...................................................

1. **LIST of attached statements and documents:** *(list all submitted statements and documents etc.)*:

.................................................................................................................... .................................................................................................................... ....................................................................................................................

................................. day................................. year

*……………………………………………………………………..*

*(electronic signature of the person authorized to represent the Contractor)*

\*delete as appropriate

|  |  |
| --- | --- |
| (name of Contractor/Contractors) | **FORM 2.2.**  **LIST OF OFFERED DEVICES**  **AND TECHNICAL PARAMETERS** |

Proceeding reference: **EZP.270.9.2025**

With reference to the contract notice in the public procurement procedure conducted in an open tender mode entitled:

**Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

**All technical and material parameters must comply with the requirements contained in VOLUME III - Description of the Subject of the Order**

* + - * 1. **SUBJECT OF BASIC ORDER:**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. RECIRCULATION LOOP**  **.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | | |
| **Requirement** | | | **Parameters offered**  **(completed by the Bidder)**  **The contractor should confirm**  **parameters required by**  **The Ordering Party by entering in**  **column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | **Construction and general functionality of the device**: The recirculation loop should allow for maintaining stable and controlled, desirable conditions of the corrosion solution (reactor water) during short and long tests (>3 months) conducted in the autoclave. The recirculation loop should allow for control and adjustment (manual or automatic) of the reactor water parameters, such as oxygen and hydrogen concentration and conductivity. The recirculation loop should be delivered and installed at NCBJ. | |  |
|  | **Construction materials**: The loop should be constructed primarily of corrosion-resistant materials such as stainless steel. | | Please enter the type of basic construction material  ………………………………………………….. |
|  | Delivery and installation of a reactor water tank made of corrosion-resistant material, e.g. stainless steel. The tank volume should be at least 75 liters and should not exceed 200 liters. The level of the solution in the tank should be marked and visible to Users. The tank should be equipped with a system designed to control the pressure and water parameters such as oxygen/hydrogen concentration achieved by dosing gases (such as Ar, N2 and H2). | | The volume of the tank must be entered  …………………………………………………. |
|  | Supply of a water purification system for corrosion tests. The system should allow for purification of tap water until the quality required in tests simulating conditions in PWR reactors is achieved. | | Please enter the name/manufacturer of your water purification system  ………………………………………………….. |
|  | Supply and installation of a chiller enabling cooling of water transported from the autoclave back to the loop. | | Please enter the chiller name/manufacturer  ………………………………………………….. |
|  | Supply and installation of a loop support allowing for the collection of water from the loop and thus reducing the risk of flooding the laboratory in the event of a failure and uncontrolled leak. | |  |
|  | Supply and installation of a conductivity sensor. | |  |
|  | Supply and installation of an oxygen concentration sensor (non-electrochemical, e.g. luminescent) with a measuring range of at least 0 to 2000 ppb and an accuracy of at least ±5% of reading and a lower detection limit of 1 ppb or less. | | The sensor type and measurement range must be entered along with specific numerical values.  ………………………………………………………… |
|  | Supply and installation of a hydrogen concentration sensor (non-electrochemical, e.g. based on thermal conductivity) with a measuring range of at least 0 to 100 cc·kg−1 with an accuracy of at least ±%5 of the reading. | | The sensor type and measurement range must be entered along with specific numerical values.  ………………………………………………………… |
|  | Liquid flow rate: at least 9 litres per hour. | | The liquid flow rate must be entered, along with specific numerical values  ……………………………………………………….. |
|  | Providing a workstation with a data logging system allowing continuous collection of the following data during measurement:   1. Temperature of reactor water used for testing 2. Pressure in the high-pressure part of the loop 3. Sensor readings: oxygen, hydrogen concentration, water conductivity   It is preferred to provide software that allows for recording all data in real time during corrosion tests. It is preferred to be able to export data to text, EXCEL or ASCII format for further analysis. | |  |
|  | Supply and installation of a dosing system to introduce the necessary chemicals into the reactor water. | |  |
|  | Operating temperature range (high pressure part): at least 250-350 ˚C  Working pressure range (high pressure part): at least 15-20 MPa | | The operating temperature and pressure range should be entered along with specific numerical values  ……………………………………………………….. |
|  | Possibility of loop operation using reactor water with the following chemical composition:  PWR water: LiOH: 2 ± 0.2 ppm, B(OH)3: 1200 ± 100 ppm, dissolved oxygen (O2): < 5 ppb, dissolved hydrogen (H2): 25–30 cc·kg−1, conductivity: 17–20 µS·cm−1  *Vainionpää, Aleks, Tommi Seppänen, and Zaiqing Que. "Effects of pressurized water reactor environment and cyclic loading parameters on the low cycle fatigue behavior of 304L stainless steel." International Journal of Fatigue 182 (2024): 108231.* | |  |
|  | Possibility of independent cleaning of the recirculation loop by NCBJ Users (without the need for service intervention) in the event of a change in test parameters, including water chemical composition. Guidelines/instructions on how to clean the loop should be provided in English. | |  |
|  | The system should be equipped with connections allowing it to be connected to cylinders containing the following gases (such as N2, Ar, H2). The H2 cylinder will be placed outside the building. The gas connection will be brought to the laboratory by the Ordering Party | |  |
|  | All water circuits and storage tanks should be protected against possible ovepressurizing and the low-pressure part of the loop should be protected against possible overheating. In the event of a solution leak, the system should be automatically shut down. | |  |
| 1. **AUTOCLAVE WITH LOADING DEVICE DEVOTED TO MECHANICAL TESTING**   **.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | | |
| **Requirement** | | | **Parameters offered**  **(completed by the Bidder)**  **The contractor should confirm**  **parameters required by**  **The Ordering Party by entering in**  **column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | **Construction and general functionality of the device:** The system consisting of an autoclave and loading device should allow performing tests in the conditions (mechanical and corrosive) simulating the operating conditions of PWR reactors. The autoclave should be connected to a recirculation loop in order to fully control the chemical composition of the reactor water during corrosion tests. The autoclave should be delivered and installed at NCBJ.  Assuming the same operating conditions (chemical composition/temperature/pressure) it should be possible to connect two autoclaves to the recirculation loop simultaneously and perform corrosion tests in both autoclaves at the same time. | |  |
|  | **Basic construction material:** stainless steel, corrosion resistant. | | Please enter the type of basic construction material  ………………………………………………….. |
|  | Autoclave operating temperature: at least 250-350 ˚C  Working pressure in the autoclave: within the range of at least 15-20 MPa | | The operating temperature and pressure range should be entered along with specific numerical values  ……………………………………………………….. |
|  | Possibility of carrying out tests in reactor water with the following chemical composition:  PWR water: LiOH: 2 ± 0.2 ppm, B(OH)3: 1200 ± 100 ppm, dissolved oxygen (O2): < 5 ppb, dissolved hydrogen (H2): 25–30 cc·kg−1, conductivity: 17–20 µS·cm−1  *Vainionpää, Aleks, Tommi Seppänen, and Zaiqing Que. "Effects of pressurized water reactor environment and cyclic loading parameters on the low cycle fatigue behavior of 304L stainless steel." International Journal of Fatigue 182 (2024): 108231.* | |  |
|  | Providing a frame necessary for hanging/fixing samples during corrosion tests in an autoclave (without mechanical load). | |  |
|  | The autoclave should be protected against excessive pressure and overheating. | |  |
|  | The autoclave should be manufactured and verified in accordance with the requirements of the Pressure Equipment Directive PED 2014/68/EU. The ordering party requires certification and quality control of pressure equipment and delivery of the required documentation. All reports and quality control results should be provided in English. Quality control and tests of the autoclave should be performed before the device is sent to NCBJ. | |  |
|  | Supply and installation of an electromechanical testing machine correlated with an autoclave. The testing machine should be adapted to carry out tests in conditions simulating the operating conditions of PWR reactors. The testing machine should allow for carrying out the following tests: (i) slow strain rate test (SSRT), (ii) constant load test, (iii) fatigue test. | |  |
|  | Load frame with electromechanical drive designed to transfer loads in the range of 20-30 kN. The frame should have appropriate stiffness adapted to the force range and tests performed. The load frame should be suitable for performing mechanical tests in an autoclave under conditions simulating the operating conditions of PWR reactors (max. 350˚C/max. 20 MPa). The system should be equipped with a force measuring head with a nominal maximum force in the range of 20-30 kN and accuracy class 0.5 according to ISO 7500-1 in the force range from 20 N to the nominal value of the head. | | Please enter the force range and accuracy class along with specific numerical values:  ………………………………………………………… |
|  | Displacement range: at least 25 mm | | The displacement range along with specific numerical values should be entered  ……………………………………………………….. |
|  | Extension rate range: between at least 1.5E-07 mm/s -1.5E-02 mm/s | | Extension rate range along with specific numerical values should be entered  ………………………………………………………….. |
|  | Grips for Pin-Loaded Specimens:   * Dedicated do SSRT (Slow Strain Rate Testing) * Suitable for pin-loaded tension test specimens * Detailed geometry of specimens to be established with the provider (3 different sample sizes with the length up to 100 mm are expected) | |  |
|  | Grips for Threaded Round Specimens:   * + Dedicated do SSRT (Slow Strain Rate Testing)   • Designed for tensile testing of threaded specimens with testing section diameters of 4 mm and 2.5 mm, in accordance with ASTM E8/E8M | |  |
|  | Grips for PWR Cladding Tube Specimens:   * Suitable for testing specimens cut from pressurized water reactor (PWR) cladding tubes (sample geometry to be proposed by the supplier) with approximate outer diameter 9.5 mm and inner diameter 8.4 mm | |  |
|  | Grips for Stress Corrosion Cracking (SCC) and Corrosion Fatigue (CF) Testing for CT Samples:   * Designed for CT 1/4" and CT 1/2" specimens as per ASTM E399: Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness of Metallic Materials | |  |
|  | General Requirements for All Grips   * The system must be delivered as fully operational, with all necessary components included to ensure functionality, such as (but not limited to) rods, seals, wedges (if required), adapters, mounting fixtures, alignment tools, and any other accessories necessary for proper operation * The grips must be compatible with the standard lengths and geometries of specimens as specified above (points 29-32). * The setup must be capable of performing tests in accordance with:   + ASTM G129-21: Standard Practice for Slow Strain Rate Testing to Evaluate the Susceptibility of Metallic Materials to Environmentally Assisted Cracking   + Stress Corrosion Cracking Testing Guidelines: With Emphasis on High Temperature Water. EPRI, Palo Alto, CA: 2022   All grips must be compatible with and installable in the autoclave to allow for testing under high-pressure and high-temperature conditions (remaining resistance to degradation). The grips should ensure secure and precise specimen handling in the autoclave during testing. | |  |
|  | Delivery and installation of a workstation with software designed to monitor and control test parameters and to record data. The workstation provided must have the Windows operating system and Microsoft Office installed. The system must be fully configured, including a keyboard, mouse, monitor and any other accessories necessary to ensure full functionality. The system must be equipped with the software necessary for continuous monitoring and control of the experiment, allowing the User to create test methods and control parameters such as load, displacement, strain, stress, temperature and pressure. The software must allow for graphical presentation of the obtained results in real time. The software must allow for performing tests in accordance with the ASTM G129-21 standard. The software must allow for reading mechanical data recorded during corrosion measurements in real time and must provide the possibility of exporting data to text, EXCEL or ASCII format for further processing and analysis. | |  |
| **3. *DIRECT CURRENT POTENTIAL DROP (DCPD) CONTROLLER* …………………………………………(NAME/TYPE/MANUFACTURER)** | | | |
| **Requirement** | | | **Parameters offered**  **(completed by the Bidder)**  **The contractor should confirm**  **parameters required by**  **The Ordering Party by entering in**  **column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | | Delivery and installation of DCPD instrument which enable to monitor crack growth rate for CT samples. Data registered with DCPD should be transferred to the software installed in the workstation (also supplied in this tender procedure).  Delivery of all equipment and consumables necessary to obtain full functionality of the DCPD device (including current/voltage measuring wires, reference samples, cables).  The delivered DCPD device should allow for performing tests in accordance with the requirements specified in the standard  *ASTM E647-24 Standard Test Method for Measurement of Fatigue Crack Growth Rates.* |  |
| **OTHER REQUIREMENTS** | | | |
| **Requirement** | | | **To be completed by the Bidder.**  **The Contractor should confirm**  **that the requirements of**  **the Ordering Party are met by writing**  **in the column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | | Electrical connections of the system (according to capabilities of the laboratory):  400 V / three phase / 50 Hz / 16 A connection  230 V / single phase / 50 Hz / 16 A connections |  |
|  | | Availability to combine recirculation loop with gases (such as N2, H2 and Ar). The hydrogen cylinder will be placed outside the building. The ordering party will provide the gas installation and install the necessary pressure regulators on the gas supply lines. |  |
|  | | All parts of the system must be able to be transported through laboratory doors with the following dimensions: width (120 cm), height (200 cm).  The dimensions of the device set (recirculation loop + chiller + autoclave) should not exceed the following dimensions (according to the laboratory capabilities):   1. Length: max. 5 m 2. Width: max. 1.5 m | The dimensions of the devices (part 1, part 2, part 3) along with specific numerical values should be provided:  ………………………………………………………… |
|  | | The system must be delivered with:   * Device and software user manual (in English) * Technical documentation of the system design (in English) * Technical documentation of the electrical installation of the system (in English) * Technical drawings of the system (in English) * Unlimited licenses for using the software/softwares * CE certificate   Certificate confirming the design and inspection of a set of devices in accordance with the European Union Directive: European Standard Pressure Equipment Directive PED 2014/68/EU. |  |
|  | | On-site training in NCBJ: minimum 8 working days for 3 people (one four-day training immediately after installation and a second four-day training within a year of installation). |  |
|  | | Short online training in English on the basic principles of working with the system (before delivery). |  |
|  | | At least 12 months warranty starting from the date of signing the acceptance protocol without reservations at NCBJ. The warranty should cover the replacement or repair of any part of the system that is destroyed or damaged (except for consumable parts). |  |
|  | | Service response time after receiving a notification from NCBJ Users: maximum 24 hours during business days. |  |
|  | | The time required to diagnose the problem should not exceed 10 business days, and the time required to repair the set of devices should not exceed 45 days. |  |
|  | | The ordering party requires a guarantee of the possibility of delivering consumables and spare parts for the set of devices within 10 years after the expiry of the warranty period. |  |
|  | | After the warranty period has elapsed, the Ordering Party requires an annual offer for a service contract (for at least 10 years after the warranty period has elapsed). |  |
|  | | After delivering the device and conducting the first training, the Ordering Party requires tests to verify the correct operation of the device, taking into account the following aspects:   1. Possibility of operating the recirculation loop and autoclave at a temperature of 350˚C and a pressure of 20 MPa 2. Correct operation of O2 and H2 sensors 3. Possibility to assign, record and control the values ​​of all test parameters in the provided software 4. Correct operation of the chiller, water purification system, DCPD device   Correct operation of the loading system, tested on samples provided by NCBJ Users and verification of results in the provided software. |  |

**II. SUBJECT OF THE ORDER COVERED BY THE OPTION RIGHT:**

|  |  |  |
| --- | --- | --- |
| **OPTION 1: AUTOCLAVE TO CORROSION (EXPOSURE TESTS)**  **.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | |
| **Requirement** | | **Parameters offered**  **(completed by the Bidder)**  **The contractor should confirm**  **parameters required by**  **The Ordering Party by entering in**  **column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | **Construction and functionality of the device:** The autoclave should allow for corrosion tests to be performed in conditions simulating those in PWR reactors (max. 350˚C/max. 20 MPa). The autoclave should be connected to a recirculation loop (from subject of basic order) in order to fully control the chemical composition of the reactor water during the tests. The autoclave should be delivered and installed at NCBJ.  Assuming the same operating conditions (chemical composition/temperature/pressure) it should be possible to connect two autoclaves to the recirculation loop simultaneously and perform corrosion tests in both autoclaves at the same time. |  |
|  | **Basic construction material:** stainless steel resists corrosion under operating conditions simulating the PWR reactor environment. | Please enter the type of basic construction material  ………………………………………………….. |
|  | Autoclave operating temperature: at least 250-350 ˚C  Working pressure in the autoclave: within the range of at least 15-20 MPa | The operating temperature and pressure range should be entered along with specific numerical values.  ……………………………………………………….. |
|  | Possibility of carrying out tests in reactor water with the following chemical composition:  PWR water: LiOH: 2 ± 0.2 ppm, B(OH)3: 1200 ± 100 ppm, dissolved oxygen (O2): < 5 ppb, dissolved hydrogen (H2): 25–30 cc·kg−1, conductivity: 17–20 µS·cm−1  *Vainionpää, Aleks, Tommi Seppänen, and Zaiqing Que. "Effects of pressurized water reactor environment and cyclic loading parameters on the low cycle fatigue behavior of 304L stainless steel." International Journal of Fatigue 182 (2024): 108231.* |  |
|  | The autoclave should be manufactured and tested in accordance with the requirements of the Pressure Equipment Directive PED 2014/68/EU. The ordering party requires certification and quality control of pressure equipment and delivery of the required documentation. All reports and quality control results should be provided in English. Quality control and tests of the autoclave should be performed before sending the device to NCBJ. |  |
|  | The autoclave should be protected against excessive pressure and overheating. |  |
|  | Autoclave should be compatible with loading device, which fulfills requirements presented in OPTION 2. If OPTION 2 is chosen, it is required to be able to perform mechanical tests in the autoclave under conditions simulating those in PWR reactors (max. 350˚C/max. 20 MPa). |  |
| **OPTION 2: LOADING MACHINE FOR MECHANICAL TESTS IN AUTOCLAVE**  **.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | |
| **Requirement** | | **Parameters offered**  **(completed by the Bidder)**  **The Contractor should confirm**  **parameters required by**  **the Ordering Party by entering in**  **column: "yes" or**  **"as required" AND in**  **for parameters or functions**  **others please specify/describe them.** |
|  | Delivery and installation of the electromechanical loading device correlated with the autoclave indicated in OPTION 1. The loading device should be adapted to perform tests under conditions simulating the operating conditions of PWR reactors. The loading device should be capable of performing the following tests: (i) slow strain rate test (SSRT), (ii) constant load test, (iii) fatigue test. |  |
|  | The loading frame must be designed to handle a load up to 2-5 kN. The frame should have appropriate stiffness adapted to the force range and tests performed. The load frame should be suitable for performing mechanical tests in an autoclave under conditions simulating the operating conditions of PWR reactors (max. 350˚C/max. 20 MPa). The system should be equipped with a force measuring head with a nominal maximum force in the range of 2-5 kN and with an accuracy class of 0.5 according to ISO 7500-1 in the force range from 5N to the nominal value of the head. | Please enter the force range and accuracy class along with specific numerical values:  ………………………………………………………… |
|  | Displacement range: at least 25 mm | Please enter the displacement range along with specific numerical values:  ……………………………………………………….. |
|  | Extension rate range: between at least 1.5E-07 mm/s -1.5E-02 mm/s | Extension rate range along with specific numerical values should be entered  ………………………………………………………….. |
|  | Grips for miniaturized specimens dedicated for slow strain rate tests (SSRT). Detailed sample geometry to be agreed with the supplier. |  |
| **OPTION 3: SPARE PARTS – RECIRCULATION LOOP**  **:.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | |
| **Requirement** | | **Parameters offered**  **(completed by the Bidder)**  **The Contractor should confirm**  **parameters required by**  **the Ordering Party by entering in**  **column: "yes" or**  **"as required."**  **The Contractor should also include a list of consumable parts.** |
|  | Providing a set of consumables for the recirculation loop from the subject of basic order, sufficient for two years of its operation. The set should also include consumables for the sensors indicated in points 7-9 (subject of basic order). | A list of consumable parts should be added  ………………………………………………………… |
| **OPTION 4: REPLACEMENT PARTS - AUTOCLAVE**  **.…………………………………………..….. (NAME/TYPE/MANUFACTURER)** | | |
| **Requirement** | | **Parameters offered**  **(completed by the Bidder)**  **The Contractor should confirm**  **parameters required by**  **the Ordering Party by entering in**  **column: "yes" or**  **"as required."**  **The Contractor should also include a list of consumable parts.** |
|  | Providing a set of consumable parts for the autoclave from subject of basic order, sufficient for two years of its operation. | A list of consumable parts should be added  ………………………………………………………… |

**III. ADDITIONAL TECHNICAL REQUIREMENTS "W"**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Requirement** | **Number of points** | **Yes/No/As required** |
|  | Providing an automatic dosing system allowing for automatic control of water chemistry based on sensor readings. | 10 |  |
|  | Design and manufacture of recirculation loop and autoclave parts exposed to the highest temperatures from nickel alloys | 10 |  |
| 3. | Providing an additional possibility of performing electrochemical tests *in situ* in an autoclave, in conditions simulating the conditions in PWR reactors (max. 350˚C/max. 20 MPa) taking into account: (i) the possibility of placing the reference electrode, counter electrode and tested sample in the autoclave for the duration of the tests, (ii) the possibility of connecting the sample, reference electrode and counter electrode to the Metrohm Vionic potentiostat/galvanostat (available at NCBJ) and providing complete equipment necessary to obtain the indicated functionality, (iii) the possibility of monitoring the current density and potential values, as well as the possibility of performing impedance tests in conditions simulating the conditions in PWR reactors (max. 350˚C/max. 20 MPa). The potential values, current density and impedance test results should be readable in the INTELLO software included with the Metrohm Vionic potentiostat/galvanostat. Delivery of the following electrochemical accessories: (i) reference electrode designed for performing electrochemical tests in an autoclave (with the possibility of working up to 350˚C/20 MPa) (ii) counter electrode, (iii) all accessories necessary to insert the electrodes into the autoclave and connect them to the potentiostat. Organization of training (in the NCBJ laboratory) covering performing electrochemical measurements in an autoclave.  The Ordering Party reserves the right to award points for the indicated requirement only if all the conditions listed are met. | 40 |  |

*........................................................................................  
(electronic signature of the authorized person*

*to represent the Contractor)*

**Chapter 3**

**Forms relating to the Contractor's compliance**

**conditions for participation in the proceedings/proving the lack of grounds**

**to exclude the Contractor from the procedure:**

Form 3.1. European Single Procurement Document (ESPD);

*(Document initially prepared by the Ordering Party available on the website of the conducted procedure both in .xml format – for importing to the eESPD service, and in pdf format – for illustration purposes.)*

Form 3.2. Proposed content of the obligation of the entity providing resources to make available to the Contractor the resources necessary for the execution of the order;

Form 3.3. Proposed content of the statement of Contractors jointly applying for the award of the contract within the scope referred to in Article 117 (4) of the PPL Act;

Form 3.4. Statement regarding the validity of information in JEDZ;

Form 3.5. Statement regardingcapital group;

Form 3.6. List of deliveries

Form 3.7. Statement on sanctions regulations related to the war in Ukraine

**Form 3.1.**

**European Single Procurement Document (ESPD)**

*(Document initially prepared by the Ordering Party available on the website of the conducted procedure both in .xml format – for importing to the eESPD service, and in pdf format – for illustration purposes.)*

**Form 3.2.**

|  |
| --- |
| **COMMITMENT**  **to provide the Contractor with the necessary resources for the execution of the order** |

Case number: EZP.270.9.2025

**I/WE**:

.........................................................................................................................................................................

*(name and surname of the person/persons authorized to represent the Entity, position (owner, president of the management board, member of the management board, proxy, authorized representative, etc.\*))*

**acting for and on behalf of:**

.........................................................................................................................................................................

*(name of the entity providing the resources)*

**I COMMIT** to provide the following resources for the purpose of order fulfillment:

..................................................................................................................................................

*(definition of resources – experience, people assigned to fulfill the order, technical skills,*

*financial or economic capacity)*

**at the Contractor's disposal:**

.........................................................................................................................................................

*(name of Contractor)*

**when executing an order under the name:**

**Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

**I/WE DECLARE**, that:

1. I provide the Contractor with the above-mentioned resources, in the following scope:

..........................................................................................................................................................................................................................................................................

1. the manner of sharing and using the above-mentioned resources will be as follows:

..........................................................................................................................................................................................................................................................................

c) the period of making the above-mentioned resources available and used will be as follows:........................................................................................................................................................

By committing to providing resources, I am jointly and severally liable with the above-mentioned Contractor, who relies on my financial or economic situation, for any damage suffered by the Ordering Party resulting from failure to provide these resources, unless I am not at fault for failing to provide the resources.

................................. day................................year

*........................................................................................  
(electronic signature of the authorized person*

*to represent the Contractor)*

**Form 3.3.**

|  |
| --- |
| **STATEMENT**  Contractors jointly applying for the award of a contract within the scope referred to in Article 117(4) of the PPL Act |

Case number: EZP.270.9.2025

In connection with the conducted public procurement procedure in an open tender entitled: **Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

**I/WE**:

.........................................................................................................................................................................

*(name and surname of the person/persons authorized to represent the Contractors jointly applying for the contract award)*

**on behalf of the Contractor:**

..........................................................................................................................................................................................................................................................................................................

*(enter the names (companies) of the Contractors jointly applying for the contract)*

**I/WE DECLARE,** that the following Contractors jointly applying for the contract will perform:

Contractor (name): ................................... will perform: ...................................\*\*

Contractor (name): ................................... will perform: ...................................\*\*

................................. on the day of................................year

*........................................................................................  
(electronic signature of the authorized person*

*to represent the Contractor)*

\* adjust accordingly (which part applies)

\*\* should be adjusted to the number of Contractors in the consortium

**Form 3.4.**

|  |
| --- |
| **STATEMENT**  **regarding the validity of the information in the ESPD** |

Case number: **EZP.270.9.2025**

In connection with the conducted public procurement procedure in an open tender entitled: **Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

**I/WE**:

.........................................................................................................................................................................

*(name and surname of the person/persons authorized to represent the Contractors jointly applying for the contract award)*

**on behalf of the Contractor:**

..........................................................................................................................................................................................................................................................................................................

*(enter the names (companies) of the Contractors jointly applying for the contract)*

I declare,

that the information contained in the JEDZ, regarding the following grounds for exclusion referred to in:

1. Article 108 (1) (3) and (6) of the PPL,

2) Article 108 (1) (4) of the PPL concerning a prohibition to apply for a public contract as a preventive measure,

3) Article 108 (1) (5) of the PPL concerning entering into an agreement with other contractors with the aim

of distorting competition,

are current.

*…………...............................................................................................*

*(electronic signature of the authorized person*

*to represent the Contractor)*

\* adjust accordingly (which part applies)

**Form 3.5.**

|  |
| --- |
| **STATEMENT**  **regarding the capital group** |

Case number: **EZP.270.9.2025**

In connection with the conducted public procurement procedure in an open tender entitled: **Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

Contractor:

Name: …………………………………………….………………………………..……………………...

Address: …………………………………………….....……………………………………………………...

NIP (Tax number): ……………………………………………………….

KRS (National Court Register): ........................................

1. I declare that I do not belong to the same capital group within the meaning of the Act of 16 February 2007 on Competition and Consumer Protection (consolidated text: Journal of Laws of 2021, item 275) with the contractors who submitted offers in this public procurement procedure.

2. I declare that I belong to a capital group within the meaning of the Act of 16 February 2007 on the protection of competition and consumers (consolidated text: Journal of Laws of 2021, item 275) with the following Contractors who submitted offers in this public procurement procedure:

1) ………………………………………………….(*entity name/company and address*)

2) ……………………………………………….

I am attaching the following evidence:

1) …………………………………………………………..,

confirming the preparation of the offer independently of another Contractor belonging to the same capital group.

*.............................................................................................*

*(electronic signature of the authorized person*

*to represent the Contractor)*

**Form 3.6.**

|  |
| --- |
| **LIST OF DELIVERIES MADE** |

Case number: **EZP.270.9.2025**

In connection with the conducted public procurement procedure in an open tender entitled: **Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

Contractor:

Name: …………………………………………….………………………………..……………………...

Address: …………………………………………….....…………………………………………………

NIP (Tax number): ……………………………………………………….

KRS (National Court Register): ........................................

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Name of the Ordering Party to whom the Subject of the order was delivered | Subject of the order | Gross value in PLN\*/EUR\*  /USD\* | Date (day, month and year) of execution (from - to) | Comments |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

\* cross out what is not necessary

*…………………………………………………………………………..  
(electronic signature of the authorized person*

*to represent the Contractor)*

**Form 3.7.**

|  |
| --- |
| **STATEMENT**  **referred to in Article 7(1) of the Act of 13 April 2022,**  **on specific measures for counteracting support for aggression against Ukraine and for protecting national security, and**  **referred to in Article 5k of Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine (OJ EU No L 229, 31.7.2014, p. 1, as amended), as amended by Regulation 2022/576 (OJ of the EU No L 111, 8.4.2022, p. 1),** |

Case number: **EZP.270.9.2025**

In connection with the conducted public procurement procedure in an open tender entitled: **Delivery, installation and commissioning a set of devices within NOMATEN CoRE intended for nuclear corrosion testing in conditions simulating the operating conditions of PWR type reactors.**

I/WE:

…………………………………………………………………………………………………………………………………………………………………….

(name and surname of the person/persons authorized to represent)

acting for and on behalf of:

…………………………………………………………………………………………………………………………………………………………………….

(name of the Contractor/Contractors jointly applying for the contract/Entity providing resources)

1) I/we declare that I am not subject to exclusion under Article 7(1)(1)-(3) of the Act of 13 April 2022 on special solutions for counteracting support for aggression against Ukraine and protecting national security (Journal of Laws of 2022, item 835, as amended), i.e. I am not a Contractor:

a) listed in the lists specified in Regulation 765/2006 and Regulation 269/2014 or entered on the list on the basis of a decision on entry on the list deciding on the application of the measure referred to in Article 1 (3) of that Act;

b) whose beneficial owner within the meaning of the Act of 1 March 2018 on Counteracting Money Laundering and Terrorist Financing (Journal of Laws of 2022, items 593 and 655) is a person included in the lists specified in Regulation No. 765/2006 and Regulation No. 269/2014 or entered on the list or being such a beneficial owner from 24 February 2022, provided that he or she was entered on the list on the basis of a decision on entry on the list deciding on the application of the measure referred to in Article 1(3) of that Act;

c) whose parent entity within the meaning of Article 3(1)(37) of the Act of 29 September 1994 on Accounting (Journal of Laws of 2021, items 217, 2105 and 2106) is an entity listed in the lists specified in Regulation 765/2006 and Regulation 269/2014 or entered on the list or being such a parent entity from 24 February 2022, provided that it was entered on the list on the basis of a decision on entry on the list deciding on the application of the measure referred to in Article 1(3) of that Act.

2) I/we declare that I/we are not subject to exclusion under Article 5k of Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine (OJ EU No L 229, 31.7.2014, p. 1, as amended), as amended by Regulation 2022/576 (OJ of the EU No L 111, 8.4.2022, p. 1), because I am not:

a) a Russian citizen, natural or legal person, entity or body based in Russia;

b) a legal person, entity or body whose ownership rights are directly or indirectly more than 50% owned by Russian citizens or natural or legal persons, entities or bodies located in Russia;

c) a natural or legal person, entity or body acting on behalf of or under the direction of:

Russian citizens or natural or legal persons, entities or bodies based in Russia or legal persons, entities or bodies whose ownership rights are directly or indirectly more than 50% owned by Russian citizens or natural or legal persons, entities or bodies based in Russia,

3) At the same time, I declare that none of my subcontractors, suppliers and entities on whose capacities I rely, in the event that they account for more than 10% of the order value, belongs to any of the above categories of entities.

……………………………………………………………………..

(electronic signature of the person authorized

to represent the Contractor)

1. *applies to Contractors* whose offers will generate the obligation to add VAT to the net value *offers, i.e. in the case of:*

   * *intra-Community acquisition of goods,*
   * *import of services or import of goods, which involves the obligation of the Ordering Party to add VAT when comparing the offer prices.*

   [↑](#footnote-ref-1)
2. Note: The declaration should be consistent with the declaration made in the single document Part II Sections C and D. [↑](#footnote-ref-2)
3. Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (OJ of the EU L 119, 4.5.2016, p. 1). [↑](#footnote-ref-3)
4. If the Contractor does not provide personal data other than those directly concerning him or there is an exclusion of the application of the information obligation, in accordance with Art. 13 sec. 4 or Art. 14 sec. 5 of the GDPR, the Contractor shall not submit the content of the declaration (removal of the content of the declaration, e.g. by deleting it). [↑](#footnote-ref-4)