**Appendix No. 1 to the Terms of Reference**

**Technical parameters and requirements for the delivery of a device for plasma cleaning of substrates**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lp.** | **Parameter** | **Requirement** | **Column to be filled in by the contractor** |
| **1.** | Model |  | Specify |
| **2.** | Manufacturer |  | Specify |
| **3.** | Country of the origin |  | Specify |
| **4.** | Year of production | 2025 | Confirm |
| **5.** | Equipment | Brand new, not used | Confirm |
| **6.** | Main application | The equipment is used for plasma cleaning of substrates used in microelectronics (semiconductors, dielectrics, metallization) | Confirm |
| **7.** | General requirements | The equipment must enable cleaning of substrates used in microelectronics using oxygen, argon and nitrogen plasma. | Confirm |
| **8.** | Power supply | 8.1 13.56MHz High Frequency RF Power Supply, Automatic Impedance Matching | Confirm |
| 8.2 500-Watt Output can be adjusted at 1-watt interval | Confirm |
| 8.3 Continuous and pulsed rf output. Pulse ratio can be adjusted from 100% to <1% | Confirm |
| **9.** | Plasma source | 9.1 Dual Plasma Sources in one system   * Conventional Direct Mode Plasma processing for high speed etching and ashing; * Gentle Downstream Mode. Plasma processing for fragile samples | Confirm |
| **10.** | Electrode | 10.1 External RF electrode | Confirm |
| **11.** | Plasma Discharge Mode | 11.1 Capacitive coupled discharge for direct plasma source | Confirm |
| 11.2 Inductively coupled plasma source as remote plasma source | Confirm |
| **12.** | Process gases | 11.3 Oxygen, MFC regulated, can be adjusted from 0-100sccm. MFC included | Confirm |
| 11.4 Argon, , MFC regulated, can be adjusted from 0-100sccm. MFC included | Confirm |
| 11.5 Nitrogen, MFC regulated, can be adjusted from 0-100sccm. MFC included | Confirm |
| 11.6 Possibility of mix two or three process gas at different ratios using recipes. | Confirm |
| **13.** | Chamber | 13.1 Cylindrical Quartz Chamber with quartz window | Confirm |
| 13.2 Equipped with isolation valve between the plasma chamber and the pumping hose | Confirm |
| 13.3 Equipped with pressure sensor with a corrosion resistance filament. Sensor sensitive to helium gas. Can be used for helium leak check to find the vacuum leak | Confirm |
| 13.4 Equipped with Faraday cage | Confirm |
| 13.5 Allows loading and cleaning of substrates from 5x5 mm to 6 inches in diameter | Confirm |
| **14.** | Plasma diagnostics | 14.1 Real-time plasma intensity sensor for quantitative plasma status monitoring | Confirm |
| 14.2 Automatic plasma tuning with the feedback from the real-time plasma intensity sensor | Confirm |
| **15.** | System control | 15.1 LCD touchscreen for glove-friendly operation | Confirm |
| 15.2 At least 20 recipe library. | Confirm |
| 15.3 3-Recipe Job Sequence Mode, run three different recipes sequentially | Confirm |
| 15.4 Possibility to choose fast/slow pumping/venting mode | Confirm |
| **16.** | Accessories | 16.1 Water vapor delivery kit for generating water vapor plasma | Confirm |
| 16.2 Dust particle filter for using ambient air to vent | Confirm |
| 16.3 Kit to connect plasma system to an external PC, and software package. | Confirm |
| 16.4 An external laptop computer for operation | Confirm |
| 16.5 Dedicated quartz holder for substrates ranging in size from 5x5 mm to 6 inches in diameter | Confirm |
| 16.6 Dedicated aluminum holder for substrates ranging in size from 5x5 mm to 6 inches in diameter | Confirm |
| 16.7 Oxygen pressure regulator for compressed gas bottles. With  shut off valve and ¼” compressed tubing connector. 0-50PSI output | Confirm |
| 16.8 Argon pressure regulator for compressed gas bottles. With  shut off valve and ¼” compressed tubing connector. 0-50PSI output | Confirm |
| 16.9 Nitrogen pressure regulator for compressed gas bottles. With shut off valve and ¼” compressed tubing connector. 0-50PSI output | Confirm |
| 16.10 Set of spare seals | Confirm |
| **17.** | Acceptance test | 17.1 The supplier will provide a report on factory acceptance tests consisting of checking the correct operation of all systems and components of the device by carrying out verification tests according to the manufacturer's standards | Confirm |
| **18.** | Spare parts and manufacturer support | 18.1. Spare parts must be available for at least 10 years.  18.2 The manufacturer guarantees remote assistance via remote desktop or video conference. | Confirm |
| **19.** | Training | 19.1 The Supplier shall provide training in the use of the device for at least 4 persons, including (permitted online training):  • Operation  • Construction of the device (basic components) | Confirm |
| **20.** | Technical documentation and user manual | 20.1 No time limit license for full use of the device and its functions for scientific, research and development, and commercial purposes | Confirm |
| 20.2 Complete documentation for the device in Polish and/or English, including the operating instructions in Polish, full electrical, mechanical and vacuum system diagrams of the device and the operating instructions for the control software | Confirm |
| 20.3 The documentation must be provided in printed form (on paper adapted for a clean-room laboratory) and in digital form | Confirm |
| **21.** | Vacuum pump | 21.1 Oxygen compatible rotary vane oil pump filled with PFPE pump oil. Ultimate pressure <10mTorr.  21.2 Vacuum hose minimum 3m long.  21.3 Vacuum Pump is controlled by the Plasma system | Confirm |

**Appendix No. 2 to the Terms of Reference**

**Statement of the Contractor**

**submitted pursuant to Art. 125, item 1 of the Act of September 11 2019**

**Public Procurement Law (hereinafter: the PPL Act),**

**THE GROUNDS FOR THE EXCLUSION OF ARTICLE 7 item 1 OF THE ACT**

**ON SPECIAL SOLUTIONS IN THE SCOPE OF COUNTERACTING THE SUPPORT OF AGGRESSION AGAINST UKRAINE AND SERVING THE PROTECTION OF NATIONAL SECURITY**

**ON THE CONDITIONS FOR EXCLUSION FROM THE PROCEDURE**

For the purposes of the procedure for award of a public contract, entitled …………………………………………………… *(name of the procedure)*, conducted by Łukasiewicz Research Network – Institute of Microelectronics and Photonics *(name of the Contracting Authority),* I hereby represent as follows:

**STATEMENTS ON THE CONTRACTOR:**

* I represent that I am not subject to exclusion from the procedure under Art. 108 item 1 and 109 item 1 (4) of the PPL Act and Art. 7 para. 1 (1-3) of the Act of April 13, 2022 on special solutions in the scope of counteracting the support of aggression against Ukraine and serving the protection of national security

or

* that grounds for exclusion from the procedure exist pursuant to Art. …………… of the PPL Act

*At the same time, I represent that, in connection with these circumstances, I have taken the following corrective actions pursuant to Art. 110 item 2 of the PPL Act: ………………………………………………………………………………….*

**STATEMENT CONCERNING THE ENTITY WHOSE RESOURCES WILL BE REFERRED BY THE CONTRACTOR**

* I certify that the following entity/s, whose resources I am referring to in these proceedings, i.e. …………………………………………………………………….……………………… *(full name of the entity, address, and also depending on the entity: Tax ID/Personal ID, National Court Register/Register of Business Activity Number),* is/are not subject of exclusion from the public Contract awarding procedure.

**STATEMENT CONCERNING A SUBCONTRACTOR WHICH IS NOT AN ENTITY WHOSE RESOURCES WILL BE REFERRED TO BY THE CONTRACTOR**

* I certify that the following entity/s, being the Subcontractor/s: ……………………………………………… *(full name of the entity, address, and also depending on the entity: Tax ID/Personal ID, National Court Register/Register of Business Activity Number)*, is/are not subject of exclusion from the public Contract awarding procedure.

**DECLARATION CONCERNING THE INFORMATION PROVIDED:**

* I declare that all the information provided in the above statements is up-to-date and truthful and has been presented with full awareness of the consequences of misleading the Contracting Authority when providing the information.

I indicate that the documents confirming these facts, referred to in Chapter VII of the ToR, are available in electronic form at the following internet addresses of public and free *(please select):*

* <https://prod.ceidg.gov.pl>
* <https://ems.ms.gov.pl>
* Other register:[………………………………..](https://ems.ms.gov.pl)

**Załącznik nr 3 do SWZ**

**Statement of the Contractor**

**submitted pursuant to Art. 125, item 1 of the Act of September 11 2019**

**Public Procurement Law (hereinafter: the PPL Act),**

**ON THE FULFILMENT OF THE CONDITIONS FOR PARTICIPATING IN THE PROCEDURE**

For the purposes of the procedure for award of a public contract, entitled …………………………………………………… *(name of the procedure)*, conducted by Sieć Badawcza Łukasiewicz − Instytut Mikroelektroniki i Fotoniki *(name of the Contracting Authority),* I hereby represent as follows:

**STATEMENTS ON THE CONTRACTOR:**

* I declare that I meet the conditions for participation in the procedure set out by the Contracting Authority in **Chapter VI of the Terms of Reference (ToR**)

**INFORMATION RELATING TO RELYING ON RESOURCES OF OTHER ENTITIES:**

* I declare that in order to fulfill the conditions for participation in the procedure, specified by the Contracting Authority in the Terms of Reference (ToR), I rely on the resources of the following entity / s:………………………………………………….………………………., to the following extent: …………………………………………………………………………………………..………

*(please indicate the entity and define the appropriate scope for the indicated entity).*

**DECLARATION CONCERNING THE INFORMATION PROVIDED:**

* I declare that all the information provided in the above statements is up-to-date and truthful and has been presented with full awareness of the consequences of misleading the Contracting Authority when providing the information.

…………….……. *(place),* date: ………….……. . …………………………………………

*(Signature)*

**Appendix No. 4 to the Terms of Reference**

**Contractors who jointly apply for a contract:**

………………………………………

………………………………………

(Full name/Company name, address)

Represented by:

………………………………………

(Representative Name, Surname, Position, Title)

**STATEMENT OF THE CONTRACTOR**

**ABOUT THE SCOPE OF PERFORMANCE OF THE CONTRACT BY THE CONTRACTORS**

**WHO JOINTLY APPLY FOR A CONTRACT**

submitted on the basis of art. 117 item 4 of the Act of September 11, 2019 - Public Procurement Law (Official Journal of 2019, item 2019 with later changes)

in the procedure for awarding a public Contract for

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

we declare that:

1. Contractor …………………………………………………………………………………………………….…………….…..

*(name and address name and address of one of the Contractors who jointly apply for a contract, e.g. a consortium member or partner in a civil partnership)*

will perform the following services \*:…………………………………………

1. Contractor ……………………………………………………………………………………………….……………..……..

*(name and address name and address of one of the Contractors who jointly apply for a contract, e.g. a consortium member or partner in a civil partnership)*

will perform the following services \*:…………………………………………

NOTE!

It should be indicated which supplies/services/construction works \* included in scope of the subject of the contract are performed by individual contractors (consortium members or partners of a civil partnership)

**STATEMENT REGARDING THE INFORMATION PROVIDED**

I/We\* hereby represent that any and all information provided in this Statement are up-to-date and accurate and that they I/we are fully aware of the consequences of providing the Contracting Authority with misleading information.

*\*Delete as appropriate*

**Appendix No. 5 to the Terms of Reference**

**BID FORM**

for: Łukasiewicz Research Network – Institute of Microelectronics and Photonics

|  |  |  |
| --- | --- | --- |
| Subject of the Order | | Delivery of a device for plasma cleaning of substrates |
| 1. | Name and address of the Contractor | ……………………………………………………………………………….  ………………………………………………………………………………. |
| 2. | Taxpayer’s Identification Number NIP  REGON number:  or the relevant foreign identification numbers | ………………………………………………………………………………  ……………………………………………………………………………..  ……………………………………………………………………………. |
| 3. | Telephone:  E-mail: | ...............................................................................  .............................................................................. |
| 4. | Total net price of the bid  VAT rate  VAT amount  Total gross price of the bid | **enter:** ..................... PLN/EUR/USD/GBP\*  Say: .................................................................................  ........................................................................................**enter:** .....................%  **enter:** ..................... PLN/EUR/USD/GBP\*  **enter:** ..................... PLN/EUR/USD/GBP\*  Say: ................................................................................. |
| 5. | Time of performing the Contract:  Maximum time: up to **31.12.2025** from the date of signing the agreement | **enter:** ........................................ |
| 6. | Warranty period: **at least 24 months** | **enter:……………………..** *(months)* |

|  |  |  |
| --- | --- | --- |
| 7. | Statement | I hereby represent that the selection of our bid **will/will not**\* result in imposing taxation obligation on the Contracting Authority. The following (name or type of the goods or services) will lead to the emergence of a tax obligation:  **Value without tax:……………………………………………………. Name of goods:…………………………………………………………** |
| 8. | Type of Contractor | I declare that I am:   * Microentrepreneur * Small enterprise * Medium enterprise * A sole proprietorship * A natural person who does not conduct business activity * Other types: **specify** ……………………….   within the meaning of the Act of March 6, 2018 Entrepreneurs Law.  (Note! Mark the "X" in the appropriate box)) |
| 9. | Statement | I hereby represent that I have read the Terms of Reference (together with the Appendices constituting an integral part thereof) and that I accept its content without reservations. |
| 10. | I hereby represent that I have fulfilled the information obligations foreseen in Art. 13 or Art. 14 of the GDPR towards natural persons whose personal data I obtained directly or indirectly in order to apply for awarding a public contract in the present procedure. | **confirm:……………………………………..**  *In the event if the Contractor does not transfer the personal data other than their own or if the information obligation is excluded pursuant to Art. 13, item 4 or Art. 14, item 5 of the GDPR, the Contractor shall not submit this statement (delete the content of the statement e.g. by crossing out).* |
| 11. | Persons authorised to represent the Contractor | **enter:** ........................................... |
| 12. | Parts of the Contract that will be entrusted to subcontractors | **Specify the parts of the Contract:** .......................  **Enter names of companies:** ………………………….. |
| 13. | Documents attached to the bid | 1. ………………………………………………………………….  2. ………………………………………………………………….  3. …………………………………………………………………. |

*\* Delete as appropriate*

**Appendix No. 7 to the Terms of Reference**

**STATEMENT**

STATEMENT OF THE CONTRACTOR CONFIRMING THE VALID OF INFORMATION PROVIDED   
IN THE STATMENT SPECIFIED IN ART. 125 OF THE PPL ACT, ON THE GROUNDS FOR EXCLUSION

Contractor :…………………………………………………………………………………………………………………………………………….

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

For the purposes of procurement procedure, the subject of which is

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

We declare that the information provided in the statement placed pursuant to Art. 125, item 1 of the PPL Act, with respect to the ground for exclusion from proceeding, stipulated in:

1. **art. 108 ust. 1** of the PPL Act
2. **art. 7 para. 1 (1-3)** of the Act of April 13, 2022 on special solutions in the scope of counteracting the support of aggression against Ukraine and serving the protection of national security

**are up-to-date / are out-of-date\***

NOTE: In the previously provided information is not up-to-date, please submit additional information in this regard, in particular specify which data the change relates to and indicate its scope

*\*delete as appropriate*

**Appendix No. 8 to the Terms of Reference**

**LIST OF DELIVERIES PERFORMED**

By placing a bid in the procedure conducted as an open tender procedure, for the **Delivery of a device for plasma cleaning of substrates** we hereby represent that during the period of three years preceding the date of placing bids (for a shorter period of business activity – during this period) we performed the following deliveries:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Subject of delivery | Value of delivery | Date of delivery | Entity for whom the delivery was made  *(name and address)* |
| ***1*** | ***2*** | ***3*** | ***4*** | ***5*** |
| 1. |  |  |  |  |
| 2. |  |  |  |  |

*Note! Please attach the relevant proof confirming that the item was duly delivered for each delivery listed in the table.*