

#### **NOTICE OF PRELIMINARY MARKET CONSULTATION**

**CONTRACTING AUTHORITY:** 

ENSEMBLE3 Sp. z o.o. with its registered office in Warsaw

Tax ID no. 118 221 10 96, REGON no. 386406355, KRS no. 0000858669

Website: <a href="http://ensemble3.eu/">http://ensemble3.eu/</a>

**CONTACT DETAILS OF THE CONTRACTING AUTHORITY:** 

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Note: All correspondence addressed to the Contracting Authority should bear the following inscription: 'Preliminary Market Consultation related to the procurement procedure for the supply of single crystal processing equipment'

I. LEGAL BASIS



The Preliminary Market Consultation is conducted pursuant to Article 84 of the Act of 11 September 2019 - Public Procurement Law (consolidated text: Journal of Laws of 2023, item 1605 as amended) and in accordance with the 'Rules and Regulations for Conduct of a Preliminary Market Consultation' - Appendix 2.

# II. THE SUBJECT OF THE PROCUREMENT AND THE PURPOSE OF THE PRELIMINARY MARKET CONSULTATION

- 1. The Contracting Authority announces a Preliminary Market Consultation related to the award of a public procurement contract for the supply of: (i) a crystal tumbler machine, (ii) a crystal edging machine, (iii) a wafer polisher, (iv) a tile grinder, (v) a base cutter (hereinafter referred to as 'Equipment'). The scope of the contract includes the supply of the Equipment, installation of the Equipment (including commissioning) and training of the Contracting Authority's personnel in the use of the Equipment.
- 2. Individual Participants in the Preliminary Market Consultation may consult on the individual Equipment covered by the contract that they are able to provide, and there is no obligation to consult on all Equipment covered by the contract.

(i)

# **CRYSTAL TUMBLER MACHINE - minimum parameters:**

- for the lateral machining of A3B5 semiconductor compound crystals (GaP, GaAs, InP, InAs, GaSb, InSb) with diameters of 2", 3", 4", 5", and 6" and lengths from 50 mm to 350 mm;
  - max. grinding length: 380 mm;
  - min. crystal diameter: 10 mm;
  - max. crystal diameter: 170 mm;
  - tips for different crystal diameters (from 10 mm through 2", 3", 4", 5", 6");
  - adjustable clamp to hold the crystal;
  - adjustable rotational speed of the crystal;
  - adjustable grinding wheel travel speed;
  - grinding wheel rotation and dimensions: must allow lateral machining of the above mentioned
    A3B5 semiconductor compound crystals;
  - equipped with appropriate systems (e.g. cooling of the crystal and grinding wheel) for the lateral machining of crystals of the above semiconductor compounds A3B5;



- control: manual or semi-automatic;
- providing a grinding wheel for A3B5 crystals (GaP, GaAs, InP, InAs, GaSb, InSb);
- The Contracting Authority requires the supply of an additional grinding wheel;
- power source: electricity of 230 V/400 V/50 Hz (Polish Standard PN-IEC 60038).

## (ii)

## Wafer edge grinder - minimum parameters:

- for wafers made of A3B5 semiconductor compounds (GaP, GaAs, InP, InAs, GaSb, InSb) with diameters 2", 3", 4", 5", 6";
  - material: A3B5 semiconductor wafers;
  - wafer diameter 2", 3", 4", 5", 6";
  - wafer thickness: from 0.2 mm to 1 mm;
  - control: semi-automatic;
  - provision of blades for A3B5 materials (GaP, GaAs, InP, InAs, GaSb, InSb) for wafer thickness from
    0.2 mm to 1 mm;
  - The Contracting Authority requires an additional set of blades to be supplied;
  - power source: electricity of 230 V/400 V/50 Hz (Polish Standard PN-IEC 60038).

#### (iii)

#### **WAFER POLISHER - minimum specifications:**

- for wafers made of A3B5 semiconductor compounds (GaP, GaAs, InP, InAs, GaSb, InSb) with diameters 2", 3", 4", 5", 6";
  - material: A3B5 semiconductor wafers;
  - wafer diameter 2", 3", 4", 5", 6";
  - wafer fixing: vacuum;
  - table with a diameter to allow polishing of wafers from 2", 3", 4", 5" 6";
  - adjustable table rotational speed: from 0 to 150 rpm;
  - adjustable head rotational speed: from 0 to 150 rpm;
  - suitable wafer holders with a diameter of: 2", 3", 4", 5", 6";
  - wafer thickness: from 0.2 mm to 5 mm;



- adjustable head pressure;
- temperature control during the process table temperature indicator displaying the temperature in degrees Celsius;
- control: semi-automatic;
- application: R&D, small batch production;
- power source: electricity of 230 V/400 V/50 Hz (Polish Standard PN-IEC 60038).

#### (iv)

### **WAFER GRINDER - minimum parameters:**

- for wafers made of A3B5 semiconductor compounds (GaP, GaAs, InP, InAs, GaSb, InSb) with diameters 2", 3", 4", 5", 6";
  - material: A3B5 semiconductor crystals;
  - wafer diameter 2", 3", 4", 5", 6";
  - wafer fixing: vacuum;
  - table with a diameter to allow polishing of wafers from 2", 3", 4", 5" 6";
  - adjustable table rotational speed: from 0 to 30 rpm; the device must be capable of *soft start;*
  - suitable holders for tiles of different diameters: 2", 3", 4", 5", 6";
  - wafer thickness: from 0.1 mm to 5 mm;
  - adjustable head pressure;
  - temperature control during the process ;- table temperature indicator displaying the temperature in degrees Celsius;
  - control: semi-automatic;
  - power source: electricity of 230 V/400 V/50 Hz (Polish Standard PN-IEC 60038).

# (v)

#### **BASE CUTTER - minimum parameters:**

- for A3B5 semiconductor compound crystals (GaP, GaAs, InP, InAs, GaSb, InSb) with diameters of 2", 3", 4", 5" 6" and lengths from 50 mm to 350 mm;
  - machined material: A3B5 semiconductor crystals;
  - table with dimensions allowing grinding of crystals from 2", 3", 4", 5", 6";



- possibility to adjust the distance of the spindle axis from the table;
- max. grinding length: no less than 380 mm;
- max. grinding width: not less than 100 mm;
- grinding wheel speed: must be such that crystals of the above-mentioned semiconductor compounds A3B5 can be machined;
- grinding wheel diameter: not less than 150 mm to guarantee correct machining of the abovementioned A3B5 semiconductor compounds;
- grinding wheel width: minimum 12 mm;
- control: manual;
- providing a grinding wheel for A3B5 crystals (GaP, GaAs, InP, InAs, GaSb, InSb);
- The Contracting Authority requires the supply of an additional grinding wheel.
- power source: electricity of 230 V/400 V/50 Hz (Polish Standard PN-IEC 60038).

#### - OTHER

- Training in the use of the subject of the procurement for the Contracting Authority's staff to ensure safe handling of the subject of the contract for a maximum of 5 people;
- 2. The purpose of the Preliminary Market Consultation is to obtain information/advice on:
  - a) the availability of new Equipment on the market;
  - b) verification of the technical parameters of the individual pieces of Equipment indicated in Section II(2) above, together with their possible change;
  - c) indication of Polish standards transposing European standards which may be used in the description of the subject of the contract;
  - d) the contract completion dates, broken down into (I) the date for the delivery of the individual Equipment and (II) the date expected for the assembly, installation of the Equipment and training of the employees by specifying the maximum number of days or weeks or months from the date of conclusion of the public procurement contract.
  - e) the warranty conditions;



- f) the possibility of guaranteeing post-warranty service for a period of at least 3 years from the end of the warranty period;
- g) the possibility to train workers;
- h) the determination of the estimated net value of the subject of the contract, taking into account the above-mentioned considerations, broken down into (i) the net price of the delivery of individual items and (ii) the net price of installation, assembly and training.
- 3. In the course of the Preliminary Market Consultation, the Contracting Authority is entitled to limit or extend the scope of its subject to elements of its choice, if in its opinion this will allow it to obtain all relevant information for the planned procurement procedure.

#### III. APPLICATION FOR PARTICIPATION IN PRELIMINARY MARKET CONSULTATION

- 1. Entities interested in participating in the Preliminary Market Consultation shall submit applications for participation Appendix 1.
- 2. The applications should be submitted:
  - a) by email to the following address: <a href="mailto:przetargi@ensemble3.eu">przetargi@ensemble3.eu</a>
- 3. **Deadline for submission of the applications: 26 september 2024** the date of receipt of the application is decisive in the determination if the deadline has been met.
- 4. The Contracting Authority shall not be obliged to invite all entities that submit an application to participate in the Preliminary Market Consultation after the deadline.

#### IV. RULES OF CONDUCT OF THE INITIAL MARKET CONSULTATION

- The Preliminary Market Consultation will be conducted in accordance with the provisions of the Public Procurement Law and the provisions of the Rules and Regulations for the Conduct of a Preliminary Market Consultation published on the Contracting Authority's website.
- 2. Participation in the Preliminary Market Consultation requires the submission of an application, attached as Appendix 1 to this Notice, by the person authorised to represent the applicant, by the deadline specified in this Notice.



- 3. An invitation to the Market Consultation will be sent to the email address indicated in the application for the participation in the Preliminary Market Consultation.
- 4. The Preliminary Market Consultation will be conducted in Polish. The Contracting Authority will allow the Preliminary Market Consultation to be conducted in other languages, in particular English, if justified.
- 5. The Preliminary Market Consultation will be open to the public, subject to §6(2) of the *Rules and Regulations for the Conduct of a Preliminary Market Consultation*.
- 6. The Preliminary Market Consultation will be conducted in the form set out in § 6(4) of the Rules and Regulations for the Conduct of a Preliminary Market Consultation.
- 7. The closing date for the Preliminary Market Consultation is expected to be 3 October 2024. The Contracting Authority reserves the right to extend the deadline for completion of the Preliminary Market Consultation.

# **Appendices:**

Appendix 1 - Template for an application to participate in the Preliminary Market Consultation.

Appendix 2 - Rules and Regulations for the Conduct of a Preliminary Market Consultation.