**ANNEX NO. 4d OF DOCUMENTATION OF THE PROCUREMENT PROCEDURE**

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**SPECIFICATION OF THE PUBLIC CONTRACT SUBJECT for lot 4 of the public contract**

The subject of the public contract shall meet the following requirements for technical parameters and equipment:

|  |  |  |
| --- | --- | --- |
| **Technical specification**­­ **­– Vacuum chamber with induction heating** | | |
| **Designation of the delivery (min. brand and type)** | |  |
| **Individual technical parameters of the performance** | | **Data about the offered performance** |
| 1 | furnace for induction melting in high vacuum |  |
| 2 | compact system in a movable rack |  |
| 3 | induction coil with linear guide across the sample for intensive mixing |  |
| 4 | maximum temperature  1800oC | ***and will enter the actual value*** |
| 5 | maximum quantity of melted sample  10 g | ***and will enter the actual value*** |
| 6 | water cooled copper mould encapsulated in vacuum tight quartz tube |  |
| 7 | turbo molecular pumping system for creating of high vacuum ≤ 10-3 mbar with controller and high-vacuum gauge | ***and will enter the actual value*** |
| 8 | pumping speed  30 l/s, short pump down times | ***and will enter the actual value*** |
| 9 | a gauge and display unit for pressure measurement |  |
| 10 | RF generator with power  10 kW | ***and will enter the actual value*** |
| 11 | frequency of RF generator adjustable in the range  min. 50-200 kHz | ***and will enter the actual value*** |
| 12 | safety switch for the RF generator |  |
| 13 | boron nitride sample holder |  |
| 14 | water chiller with cooling capacity  2.7 kW | ***and will enter the actual value*** |
| 15 | safety hood with safety switch for generator cooling water flowcontrol |  |