**ANNEX NO. 5a OF DOCUMENTATION OF THE PROCUREMENT PROCEDURE**

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**SPECIFICATION OF THE PUBLIC CONTRACT SUBJECT for lot 1 of the public contract**

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

|  |  |  |
| --- | --- | --- |
| **Technical specification – Ferroelectric test system** | | |
| **Designation of the delivery (min. brand and type)** | |  |
| **Individual technical parameters of the performance** | | **Data about the offered performance** |
| 1 | Ferroelectric properties tester including measurement electronics, control and measurement software and probe/sample holder compatible with Quantum Design PPMS cryostats. |  |
| 2 | voltage range: +-500 V minimum | ***and will enter the actual value*** |
| 3 | minimum charge resolution: < 1pC | ***and will enter the actual value*** |
| 4 | maximum charge resolution: > 100μC | ***and will enter the actual value*** |
| 5 | minimum hysteresis frequency: < 0.1Hz | ***and will enter the actual value*** |
| 6 | maximum hysteresis frequency: > 1kHz | ***and will enter the actual value*** |
| 7 | control and measurement software: automatization of hysteresis, pulse, leakage, IV, and CV measurements |  |
| **probe/sample holder:** | | |
| 8 | operational temperatures: temperature range 10K – 350K minimum | ***and will enter the actual value*** |
| 9 | tested breakdown voltage to Earth Ground inside the PPMS sample chamber within declared operational temperatures and typical working pressures (units of torr of helium gas): above 850V | ***and will enter the actual value*** |
| 10 | sample space: 10mm x 10mm minimum | ***and will enter the actual value*** |