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

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**SPECIFICATION OF THE PUBLIC CONTRACT SUBJECT for lot 3 of the public contract**

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

|  |  |  |
| --- | --- | --- |
| **Technical specification**­­ **­– low noise low temperature measurement set up** | | |
| **Designation of the delivery (min. brand and type)** | |  |
| **Individual technical parameters of the performance** | | **Data about the offered performance** |
| 1 | Set of passive and active electronics targeted for the low noise measurement of transport properties at low and very low temperatures. |  |
| Ambient temperature components: | | |
| 2 | DAC voltage source (+-10V) for DC and low frequency control, computer controlled:   * min. 24 independent channels capable of generating DC (25bit and better resolution), sine and square waves (min 1MS/s, min 20bit), current sensing * BNC terminated voltage outputs * low noise floor (<20nV/Hz) * USB or LAN (galvanically isolated) remote control * galvanically isolated power supply to minimize 50Hz noise * 19” rack mountable | ***and will enter the actual value*** |
| 3 | Fully shielded BNC breakout box   * min. 24 channels * each line individually switchable to dedicated BNC output, ground or common bus (three way switch) * fully shielded cable, to cryostat (2-5m long, 24pin Fisher connector on cryostat side + grounding lug) * 19” rack mountable | ***and will enter the actual value*** |
| Low temperature components: | | |
| 4 | Cryogenic filter(s), RC and RF stages:   * min. 24 channels (connection via 25pin micro-D connectors), each line min 1 GOhm insulation to other lines and ground * compatible with low temperatures (<100mK operating temperature) and high magnetic fields * RC stage – low pass filter, cut off frequency (min.) 10-100kHz * RF stage – low pass filter, cut off frequency (min.) 100-500MHz * maximum ratings (irrespectively of heat dissipation): min 10V, min 1mA | ***and will enter the actual value*** |

Instructions for the participants:

*The participant fills in the data in the “Data about the offered performance” column, indicating for each item whether the performance offered by him meets the relevant request of the contracting authority (“****YES****”) or does not (“****NO****”).*