**ANNEX NO. 5c 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**­­ **­– Multifunctional optical source** | | |
| **Designation of the delivery (min. brand and type)** | |  |
| **Individual technical parameters of the performance** | | **Data about the offered performance** |
| 1 | Multifunctional optical source (continuous and pulsed, five wavelengths) for optical spectroscopy, operando spectroscopy, spectro-microscopy, and magnetometry under various external conditions (field, temperature) provided by existing cryostats. |  |
| **Laser heads** | | |
| 2 | 375 and 470 nm single shot, pulse regime 40MHz, CW operation |  |
| 3 | 633 and 780 nm single shot, pulse regime 80MHz, CW operation |  |
| 4 | 760nm narrow bandwidth, single shot pulse regime 80MHz |  |
| 5 | Additional specification: 633±1 nm, linewidth <0.2nm, 760±3 nm, linewidth <0.2nm, other wavelengths ±10 nm | ***and will enter the actual value*** |
| **Emission power** | | |
| 6 | 375nm, up to 5mW @40MHz, CW 40mW | ***and will enter the actual value*** |
| 7 | 470nm, up to 4mW @40MHz, CW 60mW | ***and will enter the actual value*** |
| 8 | 633nm, up to 20mW @80MHz, CW 50mW | ***and will enter the actual value*** |
| 9 | 780nm, up to 10mW @80MHz, CW 40mW | ***and will enter the actual value*** |
| 10 | 760nm, up to 6mW @80MHz, CW mode not required | ***and will enter the actual value*** |
| **Laser heads connected via compact fiber coupling** | | |
| 11 | single-mode fiber coupler |  |
| 12 | incl. variable attenuator |  |
| 13 | incl. mounting baseplate |  |
| 14 | optimized for the wavelength range |  |
| **Single-mode fiber cables for every wavelength** | | |
| **375 and 470 nm** | |  |
| 15 | polarization-maintaining |  |
| 16 | length 3.0 m, cutoff < 375 nm | ***and will enter the actual value*** |
| 17 | MFD = 3.6 μm, NA = 0.08 |  |
| 18 | output connector FC/APC |  |
| **633, 760, and 780 nm** | | |
| 19 | polarization-maintainin |  |
| 20 | length 2.5 m, cutoff < 570 nm | ***and will enter the actual value*** |
| 21 | MFD = 4.0 μm, NA = 0.11 |  |
| 22 | output connector FC/APC |  |
| 23 | Included: collimators |  |
| 24 | Included: temperature stabilization |  |