**Part 1: Pressure cell for measuring magnetization in the SQUID-based magnetometer MPMS3**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Description and minimum specification of the Device as defined by the Contracting Authority | Description and specification of the Device offered by the bidder | Complies YES/NO |
| 1‍ | "Turnbuckle diamond anvil cell" type construction |  |  |
| 2 | Achievable pressure of at least 10 GPa with a working surface dimension of the diamond tips of at least 0.8 mm |  |  |
| 3 | External dimensions smaller than 8 mm in diameter and 8 mm in height |  |  |
| 4 | Non-magnetic construction materials, such as ultra-pure Be-Cu alloys |  |  |
| 5 | Equipped with diamond tips of type IIa diamonds, suitable also for Raman spectroscopy |  |  |

(Bidders shall fill in the columns “Description and specification of the Device offered by the bidder” and “Complies YES / NO”.)

**Part 2: Diamond pressure cell for optical spectroscopy**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Description and minimum specification of the Device as defined by the Contracting Authority | Description and specification of the Device offered by the bidder | Complies YES/NO |
| 1‍ | Achievable pressure: 100 GPa |  |  |
| 2 | Continuous pressurization using a gas membrane |  |  |
| 3 | Working distance of the sample from the edge of the chamber: max 30 mm |  |  |
| 4 | Input and output aperture: min. 50 degrees |  |  |
| 5 | Made from non-magnetic alloys such as Cu-Be, allowing for potential extension of measurements into magnetic fields and low temperatures |  |  |
| 6 | Type IIa diamond anvils |  |  |
| 7 | Includes mounting and alignment of the diamond anvils |  |  |
| 8 | Pneumatic system for pressurizing diamond pressure cells using a gas membrane: |  |  |
| 9 | Achievable pressure in the membrane: at least 200 bar |  |  |
| 10 | Designed for use with helium as the pressure gas |  |  |
| 11 | Computer connection, control software |  |  |

(Bidders shall fill in the columns “Description and specification of the Device offered by the bidder” and “Complies YES / NO”.)

**Part 3: Diamond cell for X-ray diffraction on single crystals**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Description and minimum specification of the Device as defined by the Contracting Authority | Description and specification of the Device offered by the bidder | Complies YES/NO |
| 1‍ | Achievable pressure: at least 50 GPa (ideally up to 100 GPa) |  |  |
| 2 | Overall dimensions of the cell are limited so that it must not exceed (in any orientation) the 30mm distance between the sample position and collimator (due to its intended use in a 4-circle diffractometer) |  |  |
| 3 | Capability to mount on a standard XYZ goniometric head. |  |  |
| 4 | Input and output aperture: minimum 85 degrees |  |  |
| 5 | Includes mounting and alignment of the diamond anvils |  |  |

(Bidders shall fill in the columns “Description and specification of the Device offered by the bidder” and “Complies YES / NO”.)

***Bidders shall fill in the relevant table according to the Part of the public contract to which they are tendering. Therefore, only one completed table shall always be included in this Annex; the remaining two blank tables shall be deleted by the bidders.***