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**Annex no. 1 - Technical specifications**

**Device type designation**

JASCO J-1500 CD/LD spectrometer

**Basic requirements of the contracting authority**

We require a fully functioning circular dichroism spectrometer capable of simultaneous measurement of circular dichroism (CD), linear dichroism (LD) and absorbance (Abs). The CD spectrometer should be equipped with an optional LD flow cell allowing the orientation of DNA or other macromolecules placed in the gap between an inner rotating quartz cylinder and a fixed outer quartz cylinder. The LD flow cell should be thermostatable within the range of 5-95°C and the rotating speed of the inner cylinder should be adjustable.

<b>Required technical and functional properties</b> (The tenders of participants must meet all the parameters mentioned below. The evaluated parameters of the tender must meet at least the required level)	<b>Minimum required parameters</b>	<b>Tender of the participant</b> (The participant fills in YES/NO. If there is a dimension or power threshold stated in the technical specifications, it is necessary to state the specific parameter of the offered device. If the participant does not specify this parameter, it is considered that the device meets the minimal value stated by the contracting authority in the column "minimal required parameters." The participant guarantees the following parameters.)
Measurement modes	CD, LD, Abs	<b>yes, all three parameters simultaneously</b>
Wavelength range	180 – 950 nm	<b>163-950 nm</b>
Wavelength resolution	0.1nm	<b>0.025 nm</b>
CD resolution	0.00001 mdeg	<b>0.00001 mdeg</b>
CD range	±7500 mdeg	<b>±8000 mdeg</b>
Bandwidth	0.01 – 16 nm	<b>0.01-16 nm</b>
LD flow cell	thermostatable in the range of 5-95 °C, adjustable speed of rotation	<b>yes, for thermostating requires external circulator</b>
Computer with software allowing undepreciated control of the equipment	Windows 10, 1 TB HD, 8 GB RAM, 22" monitor, laser printer, mouse,	<b>yes</b>
Thermostatted cell holder	holder for six cells with built in stirrers	<b>yes, Peltier type holder for 6 rectangular standard 10x10 or smaller cells, requires external</b>
Price must include delivery costs, installation, commissioning, basic and advanced training of the operator	Yes	<b>yes</b>
Confirmation of the supplier about maximal admissible prices of the service after guarantee period - maximal value 2000 CZK/hour without VAT at least for the period of 1 year after the guarantee period of the equipment.	Yes	<b>max. 1900 CZK/hour + VAT</b>

*The economic operator (participant) declares, that the supply will meet all requirements specified above by the buyer (contracting authority). Should during the preparation and realization of the supply arise a necessity to supply additional equipment, components or accessories, undertake other services or works to meet the buyer's requirements according to this annex, the economic operator agrees to supply this equipment and to carry out the works or services as a part of the delivery according to the contract without increasing the purchase price (the supplies, works or services mentioned above will not be considered as additional supplies or additional works).*

Signature of economic operator

