SPECIFICATION SHEET

SUPPLY OF "OEM COMPONENTS FOR DIFFUSE OPTICAL MONITORING PROTOTYPES" FOR ICFO, THROUGH AN OPEN PROCEDURE NOT SUBJECT TO HARMONIZED REGULATION

FILE NUMBER: 2025.SU.011

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Plan de Recuperación, Transformación y Resiliencia
Next Generation Catalunya
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Contents

CLAUSE 1. Object of the contract

The purpose of this contract is the supply of "OEM components for diffuse optical monitoring prototypes" for ICFO's laboratory.

The types of items supplied are linked to the CPV (Common Public Procurement Vocabulary), **38000000-5** Laboratory, optical and precision equipment (except glasses).

CLAUSE 2. Needs to satisfy

ICFO is building diffuse optical monitors for biomedical research. These monitors require OEM parts such as light sources (e.g., OEM laser sources, LEDs), detectors (e.g., SPAD, PMT, APD, CMOS-camera), secondary electrophysiology and physiology monitoring modules (e.g., OEM EEG, EKG, ultrasound). Furthermore, they will require control, automatization and calculation related IT components (e.g., storage, computers, peripherals). We require that experts in provisioning such materials identify reliable suppliers and provision the OEM parts for the prototypes based on our detailed specifications. We expect to construct two prototypes over the next year each with multiple modalities and channels.

ICFO will demand, as soon as they are needed during 2025, the OEM components in order to build the diffuse optical monitors. In each demand, ICFO will indicate technical requirements that the component delivered by the awarded company must fulfil. Those requirements can be different for each component, according to the next clause.

CLAUSE 3. Technical requirements

3.1. The system must fulfil the following specifications (in case it doesn't, the offer will be automatically excluded from the tender):

- Cover all the technical requirements provided by ICFO describing.
- Lasers: wavelength, coherence, foot-print, stability, power, control, power.
- Detectors: quantum efficiency, temporal profile, wavelength range, active area, number of parallel detection points, power, control, footprint noise.
- Secondary monitors: applicable ages, resolution (spatial/temporal as applicable), synchronization, power, control requirements, regulatory requirements.
- IT components: footprint, connectivity, CPU & GPU specifications, capacity, and standard parameters.
- As OEM components, they should fulfill the electrical, mechanical and safety requirements to ensure compatibility with prototypes for clinical/biomedical research and ethical approvals. The detailed description will be provided by ICFO.

CLAUSE 4. Operation

Each OEM component should come with full specifications and information necessary for integration into the prototypes including power, input/output, safety, temperature, humidity ranges.

CLAUSE 5. Warranty and Follow-on Support

- **Full Warranty** directly from the manufacturer should be ensured.
- **Support** manufacturer's support is required.

CLAUSE 6 CE MARKING

- CE MARKING can be required.

CLAUSE 7. Delivery and Installation Time

The system must be delivered and installed at ICFO within a maximum period of **16 weeks**.

Delivery time is defined as the time elapsed since the PO until the system delivery at ICFO facilities. It includes the manufacture of the system, the transportation, the installation and the acceptance test at ICFO's premises.

CLAUSE 8. Target price

- The target price for the total set of parts is 100.000,00 € (VAT excluded).

CLAUSE 9. Funding

This tender could be funded with projects SCOSDET and SafeICP. This equipment is financed by funds from the Generalitat de Catalunya and the Ministry of Science and Innovation (PRTR-C17.I1). "Recovery, Transformation and Resilience Plan - Funded by the European Union - NextGenerationEU".

Castelldefels, March 12th, 2025

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