
PLIEGO DE PRESCRIPCIONES TÉCNICAS

**SUMINISTRO, INSTALACIÓN Y PUESTA EN MARCHA DE UN
“SINGLE-FREQUENCY CW YB-FIBER LASER AT 1064 nm” PARA EL
LABORATORIO DE ICFO, MEDIANTE PROCEDIMIENTO ABIERTO
NO SUJETO A REGULACIÓN ARMONIZADA**

NÚMERO D'EXPEDIENT: 2024.SU.023
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CLÁUSULA 1. Objeto del contrato

El presente contrato tiene como objetivo el Suministro, instalación y puesta en marcha de un “SINGLE-FREQUENCY CW YB-FIBER LASER AT 1064 nm” para el laboratorio de ICFO.

La tipología de los artículos objeto de suministro se hallan vinculados con el CPV (Vocabulario Común de Contratación Pública), **38000000-5 Equipo de laboratorio, óptico y de precisión (excepto gafas)**.

CLÁUSULA 2. Needs to be satisfied with the contracting

We are looking to purchase a turn-key high-power CW Yb-fiber laser system for nonlinear optical experiments and applications.

CLÁUSULA 3. Technical specifications. Requirements

The required system must have the following characteristics:

- Operating wavelength at 1064 nm
- CW output power of $>+60$ W
Linearly polarized with polarization extinction ratio of 20dB
- Adjustable Power Range from 5 – 100% of max output power
- Relative Intensity Noise must be -140 dB/Hz maximum
- Narrow spectral linewidth ≤ 15 kHz
- Circular spatial beam, TEM₀₀ fundamental profile with $M^2 < 1.10$
- Output Cable Length of 1 meter
- Beam diameter after collimator must be 3mm at $1/e^2$
- Power fluctuation (50 hours) < 0.5 %
- All-fiber design, industrial reliability
- Maintenance-free 24/7 operation
- Warm-up time: 1 minute minimum, 30 minutes maximum to full stabilization.

In addition:

- The system must include a driver/cooling system for the fiber laser. The unit must be smaller 482 mm x 466 mm x 177 mm to fit the laboratory setup.
- The system must include a wavelength stabilization option.
- Power distribution and safety: The system should be configured for EU (Spain) power grid (voltage, sockets, etc.) and be CE marked. The system will be fully protected against unexpected power cuts and, in that case, will be fully safe for the operators. A quick and easy restarting of the system must be possible after a power cut.

CLÁUSULA 4. Shipping, transport

Transportation, installation, start-up, training: Transportation to ICFO facilities including insurance and all export/import and customs duties. The laser will be placed in the selected location by ICFO. Contract winner will cover all costs, organization and coordination of laser placement, including any required specialized equipment or vehicle, and any required component disassembly and reassembly for system unloading and transportation inside the building.

Acceptance test: Onsite system startup should be included followed by the acceptance tests. Training to ICFO personnel included after installation.

CLÁUSULA 5. Warranty

1-year warranty on all parts and components of the system irrespective of the manufacturer. The warranty will include the replacement of any faulty or damaged part(s) during normal use of the system, no matter the manufacturer of the component(s). It will cover any cost related with the disassembly, transportation, reparation and re-assembly of the damaged component(s), including all travelling and living costs of the required service engineer(s). An on-site repair, or a justified alternative to reduce the system down time to the minimum, will always be the first service option. A team of properly qualified and skilled service engineers will have to be available.

CLÁUSULA 6. CE Marking

CLÁUSULA 7. Target price

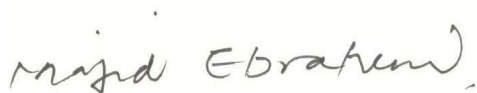
- 49.940,00 € (Vat Excluded).
- Payment Terms: 30 days after successful installation

CLÁUSULA 8. Delivery time

8.1. Delivery time maximum of 12 weeks:

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

Castelldefels, a 29 de julio de 2024



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