



Contract code

SU739000CO2025078

Technical specifications for contract the provision of a PCB direct laser etching equipment

By submitting a tender, the participating bidders accept the technical specifications established herein, which are considered the minimum compulsory requirements.

Any proposal that does not comply with the minimum requirements set out in these technical specifications will be excluded from the procurement procedure.

1. Subject of the contract or need of the contracting authority

The purpose of these technical specifications is to establish the particular conditions that will govern the provision of a direct laser etching of PCB substrates

2. Activities and functions of participating bidders

Bidders must take on the following functions:

- Deliver the equipment at the designated UPC facilities located in Barcelona, Spain
- Provide assistance in the installation process at the UPC facilities.
- Provide the necessary elements for the operation of the equipment.
- Provide at least 1 day on –site consulting/formation on the equipment use.

The tenders submitted by participating bidders must cover all the activities and functions mentioned in these technical specifications and in the special conditions for public contracts, all of which are compulsory for a tender to be admitted.

3. Compulsory general technical requirements of the provision and/or performance criteria or functional requirements of the provision

Bidders must have the sufficient technical, material and qualitative means and human resources to carry out the tasks that are the subject of this contract.

The service regulated in these specifications must meet, at a minimum, the following technical requirements, without prejudice to the award criteria:

- A 355 nm, 6 W laser source with a 20 micrometer focused beam diameter, including auto fiducial alignment camera, X/YZ vacuum table, and scan field resolution of +/- 2 micrometers
- Cu removal speed 200 m/s (or faster) on 18 micron Cu FR4
- Drilling and cutting of FR4, Rogers up to 2 mm thickness, and up to 0.5 mm metal sheets

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- The system must be self-contained and installed ready to use including:
 - air compressor system,
 - exhaust unit,
 - 1 set of protective eye goggles,
 - Digital gauge to measure substrate thickness,
 - Required tools for adjustment,
 - Small microscope with 100 magnification for inspection.

In terms of performance or functional requirements, the provision of this contract must fulfil the following aims (*including the environmental characteristics, for example*):

- Deliver the equipment at the designated UPC facilities located in Barcelona, Spain
- Deliver all the necessary supplies for the equipment use.
- Provide assistance during the installation process at least one day on site.
- Provide at least 10 hours on-line consulting on the equipment use.
- Minimum warranty of 12 months.

4. System for monitoring and controlling the execution of the specifications

The contractor must appoint a person who will be entrusted with managing the execution of the contract, who must guarantee the quality of the subject of the contract and deal directly with any issues related to the normal development of the tasks indicated herein with the interlocutor designated by the contracting authority.

5. Technical documents to be provided by successful bidder

The technical specifications proposed by the bidding company in its tender will become obligatory conditions that must be fulfilled during the execution of the contract if the bidding company is awarded the contract.

To certify the fulfilment of each technical specification, the successful bidder must provide the following documents:

- Manual and Technical specifications for the equipment.

The person in charge of the contract

Jordi Romeu Robert
Barcelona, at the date of the signature

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