

Contract code	SU182153SO2026015
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Particular technical specifications of the contract for the Supply of an underwater environmental DNA sampler (eDNA) eDNA sampler) for the Laboratory of Bioacoustic Applications (LAB) of the Polytechnic University of Catalonia

By submitting a bid, participating bidders accept the technical specifications established in these specifications, which are considered the minimum mandatory requirements.

Any proposal that does not meet the minimum requirements established in these technical specifications will be excluded from the procurement procedure.

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

eDNA) sampling system for marine monitoring, intended for the monitoring of marine biodiversity and the validation of innovative monitoring solutions within the framework of the SEAMPHONI project (Environmental DNA (eDNA), acoustics, and imaging).

The purpose of these technical specifications is to establish the particular conditions that will govern the supply of an underwater electronic DNA sampler that can be deployed autonomously for several weeks from a buoy mooring (or an instrumentation line held by a submarine float). The sampling protocol must be programmable in duty cycle mode.

2. Activities and functions of participating bidders

The offers submitted by the participating bidders must cover all the activities and functions mentioned in these technical specifications and in the particular conditions for public procurement, all of which are mandatory for a bid to be accepted.

3. Mandatory general technical requirements of the service and/or performance criteria or functional requirements of the service

In terms of performance or functional requirements, the provision of this contract must meet the following objectives:

The electronic DNA sampler:

- must be able to take at least 9 samples during deployment without requiring maintenance;
- must include the materials/consumables necessary to take at least 36 samples (through redistributions if necessary);

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- The equipment must guarantee a **minimum operational autonomy of 3 months**, being able to receive external energy or provide sufficient internal energy to cover the entire deployment period. In the event that the bidder offers an extension of this autonomy as an improvement, this must be accompanied by the supply of all the necessary hardware (additional battery packs, external housings or higher capacity batteries) at no additional cost, guaranteeing sufficient energy capacity for the period offered.
- internal batteries, if any, must in any case be replaceable in situ;
- it must be deployable up to a minimum of 100 m;
- must allow deployment on a mooring line;
- must be fully compatible with polyethersulfone (PES) pressure filtration units, with a pore size of 0.22 μm and a styrene-acrylonitrile copolymer (SAN) casing, Sterivex type or equivalent. This compatibility is an essential requirement to guarantee interoperability with the research protocols of the UPC SEAMPHONI project, ensuring the comparability of data and the integrity of biological samples according to the working standards of the Bioacoustic Applications Laboratory (LAB);
- must allow for field replacement of sampling containers and any other consumables for repeated deployment in sequence;
- The equipment must have a minimum 1 year manufacturer's warranty, with the possibility of handling and returning to an EU address in case of problems during the acceptance inspection. An additional warranty will be considered.

Additional conditions:

- The required preservative is RNAlater.
- It will be appreciated if the offer includes a separate mooring frame.
- Deployment /maintenance without the need for a crane will be considered.
- Complementary online or in-person training will be valued to ensure excellence in sample collection.
- Technical support (bag of hours) will be appreciated for questions about equipment preparation/configuration/maintenance.

The delivery period will be a maximum of 4 months from the formalization of the contract.

Place of delivery:

Laboratory of Bioacoustic Applications (LAB)
Passeig Marítim 1
08800 Vilanova i la Geltrú

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Sshipment DDP - Delivered Duty Paid.

4. System for monitoring and controlling the execution of specifications

The contractor must appoint a person who is responsible for managing the execution of the contract, who must guarantee the quality of the subject matter of the contract and deal directly with the interlocutor designated by the contracting authority with any issue related to the normal development of the tasks indicated in this document.

The aforementioned persons must be in contact monthly to supervise, control and deal with any aspect related to the development of the contract to ensure that it is executed in accordance with what is established in these terms and conditions.

Compliance with each of the technical requirements will be confirmed during acceptance tests within two weeks of sampler delivery.

5. Technical documentation to be provided by the successful bidder

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

The awarded company must provide the following documentation:

- **Technical sheet and data sheets** of the equipment with the specification of all the general characteristics of the offer.
- **Instruction manual** in English or Spanish to deploy/operate/recover/redeploy the system, both in digital and paper format.
- **Documentation of additional training**, if offered.

To certify compliance with each technical specification, the successful bidder must provide additional technical documentation that allows the operation of the sampler and details the replacement of components on the ground, as requested by the UPC.

The person in charge of the contract
Michel André Sanchez
Director of the Laboratory of Applied Bioacoustics (LAB)

Barcelona, on the date of signature

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