INSTRUCTIONS FOR TENDERERS

1. GENERAL INFORMATION

1.1. Procurement identification number: CBL-2026-4.

1.2. **Contracting Authority: Limited Liability Company "Cellboxlab"**, Reg. No. 42103111196, adress: Ataru ceļš 42, Atari, Ādaži parish, Ādaži municipality, LV-2164.

1.3. The procurement **"Procurement of development services for optical module and miniature fluorescence imaging modules and associated control software "** is carried out according to Cabinet Regulation No.104 within the EU-funded projects.

1.4. **Tenderer** – supplier submitting a tender.

1.5. **Tender** – the tender submitted within procurement CBL-2026-4.

1.6. **Supplier** – natural/legal person or an association thereof offering services.

1.7. **Subject: "Procurement of development services for optical module and miniature fluorescence imaging modules and associated control software"** (the Service).

1.7.1. The delivery deadlines are specified in Annex No.1– Technical Specification.

1.7.2. The maximum contract amount (excluding VAT) is EUR 280 000,00.

1.8. Place to receive the Instructions, provision of additional information, and other conditions:

1.8.1. The Client's contact person, who is authorized to provide organisational information regarding the Instructions during the procurement process: Ieva Jokste, e-mail: ieva.jokste@cellboxlabs.com.

1.9. Time, place and procedure of the Tenders submission and opening:

1.9.1. The Tenderer shall submit the Tender by **30 April 2026 at 17:00 (CET)**, by sending it electronically to the email address: ieva.jokste@cellboxlabs.com.

1.9.2. The Tenderer may supplement or amend the submitted Offer only until the expiry of the Tender submission deadline.

1.9.3. A Tenderer may submit one tender, covering the entire scope. Evaluation is based on total price (excluding VAT).

1.9.4. The evaluation of the Tenderer's compliance shall be carried out by the procurement committee in closed sessions.

2. PREPARATION OF THE TENDER

2.1. The procurement procedure is organized in two stages.

2.1.1. In the first stage of the procurement procedure, the Tenderer shall submit the Tender by **30 April 2026 at 17:00 (CET)**, consisting of a registration certificate (except the cases where such information is available in a public database) and proof of the company's qualification experience according to Subclause 2.1.1.1.

2.1.1.1. The tenderer must demonstrate that within the last five (5) years it has completed at least one (1) comparable delivery of an integrated fluorescence module and at least one (1) comparable software development project.

2.1.2. When preparing the Tender, the Tenderer shall observe that the registration certificate (except the cases where such information is available in a public database) and the proof of the company's qualification experience must be submitted electronically and must be signed (including a list of the completed works).

2.1.3. The proof of the company's qualification experience shall be submitted only in Latvian or English.

2.1.4. By submitting the Tender, the Tenderer confirms that it fully understands and accepts all conditions included in the Instructions.

2.1.5. The Tender is reviewed by the commission in a closed session.

2.1.6. Only those Tenderers who have been assessed as compliant with the requirements of the first stage – submission of the registration certificate (except the cases where such information is available in a public database) and proof of the Tenderer's experience in compliance with Subclause 2.1.1.1 – shall participate in the second stage of the procurement procedure.

2.1.7. In the second stage of the procurement procedure, the compliant Tenderers are invited to negotiations, during which they are provided with detailed specifications and additional information.

2.1.8. Within five working days from the provision of the detailed specifications and additional information, the Tenderer must prepare and submit a financial offer electronically to the following email address: ieva.jokste@cellboxlabs.com.

2.1.9. The procurement commission reviews the financial offers in a closed session.

2.1.10. The Contractor conducts negotiations with the Tenderer who has submitted the lowest total contract price, during which the Contractor verifies the Tenderer's understanding of the required work and the resources at its disposal.

2.1.11. If, during the negotiations, the Tenderer demonstrates confidence in its ability to ensure the provision of the service, a decision is made to conclude the Contract with the Tenderer. If, during the negotiations, the Tenderer fails to convince the Commission of its ability to perform the service, or if the Parties do not agree on Contract conclusion due to other reasons, negotiations are initiated with the Tenderer who has submitted the next lowest total contract price.

3. EXCLUSION RULES

3.1. Exclusion per Cabinet Regulation No.104 Article 12.

3.2. Exclusion under International and National Sanctions Law Paragraph one and two of Article 11.[1].

4. AWARD OF THE CONTRACT RIGHTS, CONTRACT CONCLUSION

4.1. The Commission considers as winner the Tenderer, who has submitted the lowest total contract price, has been selected according to the requirements and criteria stated in the Instruction and is not excludable from participation in the Tender according to the Sections 3.1. and 3.2. of the Instruction.

4.2. The Contractor informs all the Tenderers on the decision about the Tenderer or the Tenderers selected within the Tender within three working days after the decision is made and provides them with the information specified in the decision or sends the mentioned decision to them;

4.3. The Contractor concludes the contract according to the Instruction and the Tender.

5. PERSONAL DATA PROCESSING

5.1. The Contractor will process the personal data submitted in the Tender, will store the Tender documents and will transfer the personal data to the Procurement Monitoring Bureau and/or the Official Journal of the European Union and/or the Central Finance and Contracting Agency and/or other institutions involved in the management of European Union funds and/or the Administrative District Court, in accordance with the requirements stated in the Public Procurement Law, the regulatory enactments governing the management of European Union funds, Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 On the protection of natural persons with regard to the processing of personal data and on the free movement of such data and other applicable regulatory enactments.

6. ANNEXES

6.1. Annex 1 – Technical specification.
6.2. Annex 2 – Financial Offer

Procurement of development services for optical module and miniature fluorescence imaging modules and associated control software

PART ONE

Optical module- 5 pieces

(consists of 4 (four) components)

1. Image Sensor & Electronics

Global shutter CMOS sensor, Sony IMX265LLR-C or equivalent
Resolution: 3.1 MP (2048 x 1536) or better
Interface: USB 3.1 Gen 1, Type C or better
Required electronics: analog front end, ADC, timing, and control board

2. Optical Path Assembly

Imaging unit optics suitable for field of view of 1.9 x 1.4 mm with effective magnification of around 5x
Tube lens and optical couplers
Field of view compatible with the above sensor
Working distance of 37 mm or better

3. Illumination Subsystem

Coaxial and ring illumination suitable for transmitted and reflected light imaging
LED light sources (white light) with driver

4. Mechanical Housing and Software

Mechanical housing for alignment and protection of optical and electronic components compatible with the previous components
Must fit in the envelope of 100 x 200 x 50 mm

Delivery time: 8 weeks after advance payment date.
Payment schedule:
30% advance payment after contract signing,
70% after delivery.
The Client reserves the right to order only part of the offered goods in accordance with th e offered unit price.

PART TWO

Compact Fluorescence Imaging Module

Non-confidential overview for supplier discovery. Detailed requirements are provided only to qualified bidders.

Purpose and context

Cellbox Labs is procuring a compact fluorescence imaging module for integration into an automated organ-on-chip instrument. The module will acquire repeatable fluorescence images of microfluidic channels during routine experiments, and must integrate with an existing motion system, control electronics, and Windows-based host PC software.

Intended outcome

A self-contained imaging head that combines excitation, emission filtering, detection, and control interfaces. The design should support quantitative imaging (not just visualization), be manufacturable for a small fleet, and be serviceable in a laboratory environment.

- Multi-channel fluorescence suitable for common biological stains and reporters (exact channels and filter bands defined in the full specification).
- One primary magnification optimized to cover the full channel width in a single field of view, optional higher magnification for sub-region inspection.
- Repeatable illumination and camera control (exposure, gain, region of interest, triggering) appropriate for automated scans.
- Optical performance compatible with downstream automated analysis, with calibration support for uniformity and channel separation.

Integration and operating constraints

Mechanical integration is a moving payload on a precision stage, within a defined envelope and mounting pattern. Electrical integration is expected via a single DC supply and USB connection to the host PC, with optional additional synchronization lines. The module should tolerate incidental liquid exposure from nearby fluidics, maintain alignment through normal transport and handling, and include practical access for service and preventative maintenance.

Deliverables

Deliverables are expected to include the integrated module, integration documentation, a documented control interface (protocol or API) with example code, and service and maintenance guidance. Suppliers should also propose a production calibration and test approach that supports unit-to-unit consistency.

Access to the full technical specification

The full specification includes detailed performance targets, mechanical drawings, electrical pinouts, acceptance tests, and component constraints. It is available upon request to suppliers with verifiable miniature imaging module development expertise (for example: prior shipped optical or microscopy modules and relevant references).

Delivery time:
Design: 9 weeks after advance payment
Prototype: 14 weeks after advance payment

Payment schedule:
30% advance payment after contract signing,
70% after delivery.

PART THREE

Imaging Software Development

Non-confidential overview for supplier discovery. Detailed scope and acceptance criteria are provided only to qualified bidders.

Purpose and context

Cellbox Labs is integrating an imaging stack into an automated organ-on-chip instrument. We are seeking software development support to deliver production-grade image acquisition within the instrument control environment. From the bidders we are looking for an application programming interface (API) development that subsequently Cellbox Labs will be able to utilize for further development.

The intended outcome

A reliable acquisition workflow suitable for unattended operation, consistent dataset structure and provenance, and an analysis tool that enables review, basic processing, and export of imaging datasets in agreed scientific formats. The solution should be maintainable, testable, and designed for future scale-out across multiple instruments.

Scope overview

- Automated acquisition support for scans, including robust autofocus behavior and region-of-interest workflows.
- Tile stitching or mosaic building for scanned channels, with calibration hooks to reduce shading and seam artifacts.
- Structured metadata capture aligned to each image and dataset, enabling traceability and auditability.
- Operator-facing analysis application for fluorescence and brightfield data, covering common manipulations and quantitative readouts (details in the full scope).

The service includes five work packages:

1. WP1- Imaging Pipeline Development
2. WP2- Cellular Feature Analysis
3. WP3- Quantitative Cell Analysis
4. WP4- Advanced Image Reconstruction
5. WP5- Signal Processing and Quantification

Integration and non-functional expectations (summary)

The software is expected to run on a Windows-based instrument PC and interface with imaging hardware and motion control through agreed APIs. Key non-functional expectations include stability, clear status reporting, graceful failure handling, documented interfaces, and packaging suitable for production deployment.

Access to the full scope

The full scope includes detailed feature definitions, quantitative acceptance criteria, validation protocols, and integration of interface details. It is available upon request to suppliers with verifiable miniature imaging software development expertise (for example: camera acquisition pipelines, microscopy workflows, and scientific image and metadata formats), including relevant references and named technical leads. Shortlisted suppliers will be asked to enter appropriate confidentiality arrangements before detailed information is shared.

Delivery time for **each work package**:

1. First beta version 6 months after advance payment
2. Full Imaging Software 12 months after advance payment

The execution of each work package shall start upon the Clients request, but no later than 3 January 2027.

Payment schedule **for each work package**:
30% advance payment after contract signing,
70% after delivery.

ANNEX 2

FINANCIAL OFFER

Tenderer name	
Registration number	
Legal address	
Email	
Contact person	
Phone	
Contact email	
Bank name	
Bank code	
Account number	
Contract signer (name, position)	

Optical module (*Price per unit (excl. VAT))*	
VAT	
Total	

Compact Fluorescence Imaging Module *(Price per unit (excl. VAT))*	
VAT	
Total	

Imaging Software Development	
WP1- Imaging Pipeline Development	
WP2- Cellular Feature Analysis	
WP3- Quantitative Cell Analysis	
WP4- Advanced Image Reconstruction	
WP5- Signal Processing and Quantification	
All work packages TOGETHER	
VAT	
Total	

By submission of this offer, the Tenderer approves that:

- *It applies to participate in the tender process "Procurement of development services for optical module and miniature fluorescence imaging modules and associated control software " (No CBL-2026-4);*
- *The submitted Financial offer and the other documents included in the Offer are correct and include all the costs related to the Delivery provision; in no way is interested in any other offer and is not participating in any other offer, as well as has not performed any competition restricting activities in relation to the any other offer submitted within the Tender;*

- *The information and documentation included in its offer are complete and truthful;*
- *It has reviewed all the documents of this Instruction and fully understands the terms and requirements of the Tender procedure;*
- *All the current documents submitted in the offer of the Tenderer are an integral part of this offer and are a binding part of this offer to the Tenderer;*
- *The Delivery will be provided according to the Annex No. 1– Technical specification;*
- *If the Purchaser will choose this delivery, we undertake to conclude the contract and fulfill all the contract requirements.*

_____
(Tenderer)

_____
(Authorized representative)

_____
(Signature)

_____
(Date)