

**SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR THE
LEADING UNIVERSITY PROJECT FOR INTERNATIONAL COOPERATION (LUPIC)**

LUPIC/2026/21

BIDDING DOCUMENT

Deadline for the submission of bid	9th of September 2026 at 2.00pm
Bid validity up to	9th of December 2026
Bid addressed to	Local Project Coordinator, Leading University Project for International Cooperation

Contents

Procurement Notice	3
Technical Specifications of Items.....	5
Annexure 1.....	6
Probe Ultrasonic Homogenizer.....	6
Annexure 2.....	8
Horizontal Gel Electrophoresis Apparatus	8
Annexure 3.....	10
Fluorometer	10
Information for Bidders	12
Documents to submit	12
Evaluation and qualification criteria of the bidder.....	12
Payments	12

Procurement Notice

INVITATION FOR BIDS FOR THE PROCURMENT OF LABORATORY EQUIPMENTS FOR THE LEADING UNIVERSITY PROJECT FOR INTERNATIONAL COOPERATION (LUPIC).

Sungkyunkwan University, South Korea invites bids from eligible and qualified bidders for Supply, Delivery and Installation of laboratory equipment listed below for a Program in Biomolecular Science and Industrial Biotechnology offered by the Faculty of Science, University of Colombo, in Sri Lanka under the Leading University Project for International Cooperation (LUPIC).

No	Item	Qty
1	Probe Ultrasonic Homogenizer	1
2	Horizontal Gel Electrophoresis Apparatus	1
3	Fluorometer	1

1. Bidders should have at least five years' experience in supply of above item in Sri Lanka.
2. Interested and eligible bidders may obtain further clarifications from the Local Project Coordinator by email at bsib@sci.cmb.ac.lk. Further information may also be obtained by calling 070 642 1350 during office hours.
3. Bidders must submit copies of Business Registration certificates and Bank Statements which are issued by the government. Additionally, the bidder must submit a copy of an invoice.
4. The bidders must ensure that the name of the bidder is exactly the same in business registration certificate, bank statement and invoice. No alternative usage of commonly used terms such as "Limited" and "Private" in one document and "LTD" and "Pvt" in another document is allowed.
5. Noncompliance with these requirements may result in delays or disqualification during the evaluation process.
6. **Duly completed bidding quotes should be submitted to the BSIB Office (4th floor, Student Service Centre) Faculty of Science, University of Colombo, under sealed registered cover and to be received on or before 02:00p.m. on 09/09/2026.**
7. Bidders are requested to attend the **bid opening** on **09/09/2026** at the **BSIB office, 4th floor, Student Service Centre, Faculty of Science, University of Colombo at 2.00 pm.**
8. All the supply, delivery, installation and commissioning of laboratory equipment and furniture must be completed by **31/12/2026**.
9. Incomplete and late bids will be rejected, and the procurement committee reserves the right to accept or reject bids.

Local Project Coordinator

Leading University Project for International Cooperation

Technical Specifications of Items

Item No.	Name of Item	Specification	Quantity
1	Probe Ultrasonic Homogenizer	Annexure 1	1
2	Horizontal Gel Electrophoresis Apparatus	Annexure 2	1
3	Fluorometer	Annexure 3	1

Annexure 1

Probe Ultrasonic Homogenizer

Parameter	Minimum Required Specification	Bidder's Response
Measurement Principle	High-frequency ultrasonic cavitation via a piezoelectric converter and titanium probe (20/30/40 kHz) – Automatic tracking (if available)	
Programmable Format	Yes; user-programmable operating parameters (timer, pulse times, and intensity/amplitude)	
Supported Modes	Manual and Programmable Pulsed/Continuous modes	
Display	Digital display for operating parameters and energy output	
Data Monitoring	Real-time monitoring and display of total energy delivered during processing	
Energy Output	100 – 500 watts	
Pulse Duration Range	Programmable ON/OFF pulse intervals from 1 to 59 seconds	
Timer Range	Programmable timer from 1 second up to 10 hours	
Processing Volume	0.2 mL to 50 mL (expandable up to 100 mL depending on probe selection)	
Probe Options	High-grade titanium probes compatible with micro-volume and mid-volume samples. (5/64 in., 1/8 in., and 1/4 in. diameters)	
Safety Features	Overload protection and auto-tuning circuit	
Calibration/ Tuning	Automatic frequency tuning to optimize efficiency across different sample viscosities.	
Power Supply	110– 240 V AC, 50/60 Hz (or optional 220–240 V AC variant)	
Operation Temperature	Standard laboratory ambient temperature (15–30°C)	
Accessories	Generator, converter, titanium probe, power cord, tool kit, operating manual	

Software	Integrated digital control firmware	
Compliance	CE and/or equivalent international safety and EMC certifications	
Installation	On-site installation, calibration, and user training by supplier	
Documentation	User manual, service manual (if available), calibration certificate, and IQ/OQ documentation (where applicable)	
Warranty	Minimum 2 years comprehensive warranty, including parts and labour	
After-Sales Support	Local technical support, preventive maintenance, and availability of spare parts for at least 5 years	

Annexure 2

Horizontal Gel Electrophoresis Apparatus

Parameter	Minimum Required Specification	Bidder's Response
Programmable Format	Yes; user programmable operation through compatible electrophoresis power supply; ability to set constant voltage or constant current; timer programmable from 1–999 minutes (or continuous mode); automatic stop at completion; memory for at least 5–10 user-defined programs (if supplied with programmable power supply).	
Supported Assays	Agarose gel electrophoresis for PCR products, genomic DNA, plasmid DNA, restriction enzyme digests, DNA ladder analysis, RNA electrophoresis (non-denaturing), genotyping, cloning verification, DNA quality assessment, molecular diagnostics, and nucleic acid fragment analysis.	
Display	Digital LCD or LED display on the power supply showing voltage (V), current (mA), power (W), elapsed time, and operating status; real-time monitoring of run parameters.	
Tray Size	For gel sizes (i) Not larger than 10 x 12cm (ii) Not larger than 8 x 8cm	
Buffer Volume	400mL, 800mL	
Connectivity	USB, compatibility with an external electrophoresis power supply	
Sample Volume	5-30 µL (or better) per well	
Measurement Time	20-120 minutes	
Calibration	Power supply should be factory-calibrated	
Power Supply	10–300 V DC, 10–500 mA, and up to 150 W , (min 4 terminals) Quote the price separately	
Operating Temperature	ambient laboratory temperature (approximately 15–40°C)	

Accessories	Complete system supplied with electrophoresis chamber/tank, gel casting tray(s), sample combs, casting gates, electrode assembly, safety lid, connecting leads, compatible power supply (if included), operator manual	
Software	No dedicated software	
Compliance	Manufactured according to relevant laboratory equipment safety standards	
Installation	On-site installation, calibration, and user training by supplier	
Documentation	Supplied with user manual, installation guide, operating instructions, maintenance procedures, troubleshooting guide, safety information, warranty certificate, and calibration/performance verification documents (where applicable).	
Warranty	Minimum 2 years comprehensive warranty, including parts and labour	
After-Sales Support	Local technical support, preventive maintenance, and availability of spare parts for at least 5 years	

Annexure 3

Fluorometer

Parameter	Minimum Required Specification	Bidder's Response
Measurement Principle	Fluorescence detection using LED excitation and optical filters	
Programmable Format	Yes; user-programmable assay protocols and calibration methods	
Supported Assays	dsDNA, ssDNA, RNA, microRNA, protein, and custom fluorescence assays	
Display	Colour touchscreen with intuitive graphical user interface	
Data Storage	Internal memory for assay results and user protocols	
Data Export	Wi-Fi to network drive, USB flash drive, and direct transfer via USB cable	
Connectivity	USB, Wi-Fi, Ethernet (preferred)	
Onboard Calculators	Reagent calculator, dilution calculator, concentration calculator, assay range calculator, normalization calculator	
Light Sources	Blue LED (peak approximately 470 nm) and Red LED (peak approximately 635 nm)	
Excitation Filters	Blue LED: 430–495 nm; Red LED: 600–645 nm	
Emission Filters	Green: 510–580 nm; Red: 665–720 nm	
Sample Volume	1–20 µL (or better)	
Detection Range	Broad dynamic range suitable for low- and high-concentration nucleic acid and protein quantification	
Accuracy	High sensitivity with assay-specific calibration and automatic background correction	
Measurement Time	Typically, ≤5 seconds per sample	
Calibration	Factory calibrated with user calibration option	
Power Supply	220–240 V AC, 50/60 Hz	

Operating Temperature	15–35°C	
Accessories	Starter assay kit, sample tubes, USB cable, power cord, operating manual	
Software	Built-in software with assay templates, user management, data export, and firmware update capability	
Compliance	CE and/or equivalent international safety and EMC certifications	
Installation	On-site installation, calibration, and user training by supplier	
Documentation	User manual, service manual (if available), calibration certificate, and IQ/OQ documentation (where applicable)	
Warranty	Minimum 2 years comprehensive warranty, including parts and labour	
After-Sales Support	Local technical support, preventive maintenance, and availability of spare parts for at least 5 years	

Information for Bidders

Documents to submit

The bidder shall submit the following documents:

1. Copy of business registration certificate.
2. Documentary evidence (purchase orders) to prove for experience in the relevant field.
3. Quotation for the items (price schedule).
4. Copies of audit financial statements for last three years.
5. Copy of the manufacturing authorization letter for appointing as a dealer or agent for quoted brand.

Evaluation and qualification criteria of the bidder

The qualified bidders will be evaluated on the following criteria:

1. Full compliance with technical specification.
2. The business registration certificate.
3. Experience as local agent for the same quoted brand.
4. After sales service.
5. Product life span.
6. The lowest quoted price among the qualified bidders will be used as the deciding factor for awarding the bid.

Payments

1. Payments will be transferred directly to the bidder via wire transfer from Sungkyunkwan University, Republic of Korea. Please provide the following information:
 - Name of the company:
 - Address of the company:
 - Country:
 - Name of the bank:
 - Address of the (branch) of bank:
 - Account Number:
 - SWIFT (Society for Worldwide Interbank Financial Telecommunication) code of the bank:

- BIC (Bank Identified Code) of bank:
- Bank code:
- Branch code:

2. Payments will only be made upon delivery and after successful inspection of the item (s) by the local agent.