

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

Ministry/Division	University Grants Commission of Bangladesh (UGC)
Organization	Bangladesh Medical University (BMU)
Procuring Entity Name	Bangladesh Medical University (BMU)
Expression of Interest for Selection of	Individual Consultant (National) (Time-Based)
Title of Service	Consultant for Laboratory Research
EOI Ref. No.	BMU/PIN1/2256/S-03

KEY INFORMATION

Selection Method	Individual Consultant Selection (ICS)
Market Approach	Single Source Selection (SSS)
Type of Procurement	Direct Selection

FUNDING INFORMATION

Budget and Source of Funds	The World Bank
----------------------------	----------------

PARTICULAR INFORMATION

Name of the Project	Higher Education Acceleration and Transformation Project (HEAT)
Project Title (Sub-component)	Building a Modern Clinical Pharmacology Education System: Infrastructure Enhancement, Evidence-Based Training and Research Integration in Pharmacology
Project Identification No. (PIN)	12256
EOI Closing Date and Time	23.08.2028 (2:00pm)

Application Place:

Interested candidates may submit their EOI, along with all required documents, either:

- By hand to the Sub-Project Manager (SPM), **Room No. 1105, 10th Floor, OPD-2, Department of Pharmacology, Bangladesh Medical University (BMU), Shahbag, Dhaka-1000**; or
- By email to 'heatproject12256@gmail.com'.

Applications must be received on or before the EOI closing date and time.



Bangladesh Medical University

Department of Pharmacology

Faculty of Basic Science and Para Clinical Science

HEAT Project, PIN-12256 of UGC, Bangladesh



A. Background

The Higher Education Acceleration and Transformation (HEAT) Project, implemented by the University Grants Commission (UGC) under the Ministry of Education and financed by the Government of Bangladesh (GoB) and the World Bank, aims to enhance the quality, equity, and relevance of higher education in Bangladesh. The project is a strategic response to the national vision of transitioning to a knowledge-based economy by strengthening the capacity of higher education institutions to meet international standards and emerging societal needs.

Under this initiative, the Department of Pharmacology at Bangladesh Medical University is implementing a sub-project titled *"Building a Modern Clinical Pharmacology Education System: Infrastructure Enhancement, Evidence-Based Training, and Research Integration in Pharmacology."* This subproject was designed to strengthen clinical pharmacology education and translational research capacity through the integration of laboratory services, patient-oriented research, and advanced analytical platforms.

A central component of the project is the establishment of modern bioanalytical laboratory systems, particularly High-Performance Liquid Chromatography (HPLC) and Liquid Chromatography-Mass Spectrometry (LC-MS), to support therapeutic drug monitoring (TDM), bioequivalence studies, and pharmacokinetic research. These activities require validated analytical methods, standardized laboratory workflows, and stringent quality assurance systems.

To ensure the effective establishment, operation, and sustainability of these laboratory systems, the project intends to engage a **consultant for laboratory research**.

B. Objectives

The **primary objective** of this assignment is to establish, operationalize, and support advanced analytical laboratory systems (HPLC and LC-MS) for drug quantification and to contribute to TDM, bioequivalence, and pharmacokinetic research activities.

The specific objectives are as follows:

- Developing and validating robust HPLC and LC-MS analytical methods for drug estimation in biological matrices
- Supporting implementation of Therapeutic Drug Monitoring (TDM) services through standardized laboratory procedures
- Establishing Standard Operating Procedures (SOPs) and ensuring compliance with quality assurance standards
- Contribute to bioequivalence and analysis, including sample quantification

Elora

Dr. Elora Sharmin
MBBS, MPH, MD. (Pharmacology)
Associate Professor
Department of Pharmacology
Bangladesh Medical University
Shahbag, Dhaka-1000



Bangladesh Medical University

Department of Pharmacology

Faculty of Basic Science and Para Clinical Science

HEAT Project, PIN-12256 of UGC, Bangladesh



- Strengthening laboratory research capacity in clinical pharmacology and bioanalysis
- Implement internal quality control and calibration systems for HPLC and LC-MS
- Ensure analytical data integrity, traceability, and reproducibility in compliance with Good Laboratory Practice (GLP) principles
- Build technical capacity of laboratory personnel and research staff through hands-on training and supervision on HPLC, LC-MS, and other lab instruments

C. Scope Of Services, Tasks, and Expected Deliverables

The consultant will undertake, but not be limited to, the following tasks:

1. Method Development and Validation

- Develop, optimize, and validate analytical methods using HPLC and LC-MS
- Perform method validation in accordance with internationally accepted guidelines

2. Laboratory Setup and System Implementation

- Assist in installation, calibration, and commissioning of HPLC and LC-MS instruments
- Support procurement specifications and technical evaluation of laboratory equipment

3. Support to TDM and Bioequivalence Studies

- Conduct sample analysis for Therapeutic Drug Monitoring (TDM) and bioequivalence
- Collaborate with patient service teams for timely processing of biological samples

4. Training and Capacity Building

- Provide hands-on training on HPLC/LC-MS operation and data analysis to personnel
- Support capacity-building initiatives within the department

D. Qualifications And Experience

1. Academic Qualifications

- Bachelor's and Master's in Chemistry/Biochemistry & Molecular Biology/Microbiology/Genetic Engineering & Biotechnology, from a recognized institution

Elora

Dr. Elora Sharmin
MBBS, MPH, MD. (Pharmacology)
Associate Professor
Department of Pharmacology
Bangladesh Medical University
Shahbag, Dhaka-1000



Bangladesh Medical University

Department of Pharmacology

Faculty of Basic Science and Para Clinical Science
HEAT Project, PIN-12256 of UGC, Bangladesh



2. Professional Experience

- Minimum 3 (three) years of research experience in laboratory-based analytical work
- Demonstrated practical expertise in HPLC and/or LC-MS operation and method development
- Experience in bioanalytical method validation and handling biological samples is preferred
- Experience in Pharmacology Department oriented lab

3. Skills and Competencies

- Strong understanding of analytical chemistry and bioanalytical techniques
- Proficiency in data analysis related to chromatographic and mass spectrometric systems
- Ability to develop SOPs and maintain structured documentation systems
- Good problem-solving skills for instrument troubleshooting and method optimization
- Ability to work independently and within multidisciplinary research teams

E. Reporting Requirements

The Consultant will be required to submit the following:

- Monthly progress reports detailing laboratory setup, method development, and analytical activities
- Periodic summary reports aligned with project milestones
- Documentation required for monitoring, evaluation, and audit purposes
- Final report summarizing laboratory establishment, analytical outputs, and research contributions at the end of the contract period

F. Duration Of Assignment

The assignment will be conducted over a period from **August 2026 to September 2027** on a full-time basis. Continuation of the contract will be subject to satisfactory performance and project requirements.

Elora

Dr. Elora Sharmin
MBBS, MPH, MD. (Pharmacology)
Associate Professor
Department of Pharmacology
Bangladesh Medical University
Shahbag, Dhaka-1000



Bangladesh Medical University

Department of Pharmacology

Faculty of Basic Science and Para Clinical Science

HEAT Project, PIN-12256 of UGC, Bangladesh



G. Duty Station

The consultant will be based at the **Department of Pharmacology, Bangladesh Medical University, Dhaka**. The role is primarily site-based; however, occasional coordination with other departments or facilities may be required.

H. Institutional Arrangement

The consultant will work under the direct supervision of the **sub-project manager (SPM)** and/or **additional sub-project manager (ASPM)** of the sub-project. The Consultant will closely coordinate with:

- Clinical faculty and physicians
- Laboratory personnel
- Project Implementation Unit (PIU)
- Other relevant stakeholders

I. Selection Procedure

The consultant will be selected following the **Individual Consultant Selection (ICS)** method in accordance with the **Public Procurement Rules (PPR), 2025**, and **HEAT project guidelines**.

J. Remuneration

Remuneration will be provided in accordance with **UGC HEAT Project 12256**.

Elora
Dr. Elora Sharmin
MBBS, MPH, MD. (Pharmacology)
Associate Professor
Department of Pharmacology
Bangladesh Medical University
Shahbag, Dhaka-1000