



**Republic of Liberia**  
**Ministry of Health**  
**P.O. Box 10-9009**  
**1000 Monrovia, 10 Liberia**

**REQUEST FOR EXPRESSION OF INTEREST  
FOR**

**Development of an Electronic Continuous Immunization Learning (e-CIL) System  
(IFB No: MOH/EPI/GAVI/QCBS/001/2025)**

This Special Procurement Notice follows the General Procurement Notice published early January of 2025

## **Background**

The Ministry of Health thought the Government of the Republic of Liberia has received finances from the Global Alliance on Vaccine and Immunization (GAVI) as support to the Liberia health system. The Ministry of Health (MOH) intends to apply portion of this fund for hiring a firm to develop an Electronic Continuous Immunization Learning (e-CIL) system. The Electronic Continuous Immunization Learning (e-CIL) system is an innovative online and offline electronic learning platform designed to enhance immunization training for healthcare professionals, supervisors, and relevant stakeholders. This system will provide self-paced learning modules, real-time assessments, and progress tracking, ensuring seamless synchronization between offline and online modes.

The e-CIL platform is designed to function effectively in low-connectivity environments, enabling users to download content, complete training offline, and synchronize progress once internet access is restored. The platform will prioritize scalability, user-friendly design, secure data management, and mobile accessibility, including support for an Android application to extend learning capabilities to mobile users.

## **Objectives**

The key objectives of this project are as follows:

- A. Develop an e-learning platform with online and offline synchronization capabilities for immunization training.
- B. Ensure accessibility in low-connectivity regions through offline-first functionality.
- C. Provide interactive learning modules, quizzes, and certification tracking.
- D. Enable real-time synchronization when internet connectivity is available.
- E. Develop an Android application to enhance accessibility and usability on mobile devices.
- F. Deliver training and comprehensive documentation to facilitate smooth system adoption.

## **Scope of Work**

The **Developer** will be responsible for the following tasks:



## **A. Frontend, Backend, and Android App Development**

- Develop a web-based frontend system using JavaScript, Java, or Ruby.
- Implement a backend API utilizing PostgreSQL as the database.
- Ensure seamless communication between the frontend, backend, and mobile application.
- Develop a native Android application with offline functionality and real-time synchronization capabilities.

## **B. System Configuration & Customization**

- Design and configure learning modules to align with immunization training workflows.
- Develop robust data synchronization mechanisms for offline and online usage.

## **C. Testing & Quality Assurance**

- Conduct system testing to validate frontend, backend, and mobile application functionalities.
- Perform user acceptance testing (UAT) with health supervisors and stakeholders to assess system usability.
- Optimize performance to ensure efficient data synchronization across varying network conditions.

## **D. Deployment & Training**

- Deploy the e-CIL system in the designated production environment.
- Deploy the Android application on relevant app distribution platforms.
- Conduct training sessions for end-users, including supervisors and health officials.
- Provide comprehensive system documentation, including architecture details, source code, and user manuals.

## **E. Post-Launch Support & Maintenance**

- Offer one month of post-launch support to address troubleshooting and bug fixes.
- Develop a long-term maintenance plan, including updates, security enhancements, and Android app improvements.

## **Deliverables**

- A user-friendly system developed using JavaScript, Java, or Ruby, with a backend API using PostgreSQL for database management and offline support.
- A fully functional Android application with offline learning support and synchronization capabilities.
- Comprehensive system documentation, user manuals, and training materials.
- Successful deployment of the system in production environments.
- Source code of the developed application and mobile app.
- One month of post-launch support to address operational issues.



## Timeline

The project is expected to be completed within **4 months**. The following milestones outline the project timeline:

Phase	Timeline	Deliverables
Phase 1: Requirements Analysis	Weeks 1-2	Documented system requirements
Phase 2: System Configuration & Setup	Weeks 3-4	Configured system modules
Phase 3: System Design	Weeks 5-6	System design documentation
Phase 4: Frontend, Backend & Android App Development	Weeks 7-10	Web-based frontend, API with PostgreSQL, and Android app
Phase 5: Data Synchronization Implementation	Weeks 11-12	Fully tested synchronization feature
Phase 6: Testing & Quality Assurance	Weeks 13-14	System testing and bug fixes
Phase 7: Deployment & Training	Weeks 15-16	Deployed system and completed training sessions
Phase 8: Final Review and Handover	Week 16	Project completion and final review

## Roles and Responsibilities

- **Developer:** Responsible for system design, frontend and backend development, Android app development, integration, and testing.
- **ICT Unit:** Oversees project execution, ensuring adherence to timelines and milestones.
- **End Users & Administrators:** Participate in UAT and receive system training.

## Budget

The budget for this project will cover the cost of development, testing, deployment, and post-launch support, including any necessary third-party tools or integrations.

## Evaluation and Acceptance Criteria

The project will be evaluated based on the following criteria:

- **Functionality:** Successful implementation of all system features, including the Android application.
- **Usability:** The system and Android app should be intuitive and user-friendly for health supervisors and administrators.
- **Performance:** The platform and mobile app must function efficiently in both offline and online environments.

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- **Security:** Implementation of robust security measures to protect data integrity and confidentiality.
- **User Satisfaction:** The system should meet end-user requirements and pass UAT evaluations.

## Confidentiality and Ownership

The **Developer** agrees to maintain confidentiality regarding all project-related information. All intellectual property, including software, data models, and documentation, will remain the property of the **Ministry of Health**.

Application procedure Interested Firms to submit expression of interest (EOI) TO the Procurement Unit of the Ministry of Health. All applications should include the following:

- Cover letter including a brief overview of the assignment as understood by the consultant
- CV of lead consultant and other team members to be involved in the work order
- Reference letter from two previous assignments
- Current Business registration and Tax Certificate of the consulting firm
- Annexes: Any documents, such as work samples, past relevant projects, or other information

Firms will be selected in accordance with the Quality Cost Based Selection (QCBS) method set out in the Public Procurement and Concession Commission of Liberia Consultant Guidelines.

Applications; clearly marked with the reference above, must be delivered in the tender box situated on the Ground floor opposite the elevator at the central office in Congo Town at the address below by 2PM Local Time, on 10<sup>th</sup> June 2025, only short-listed firms will be contacted.

The address referred to above is:

The Procurement Director  
 Ministry of Health  
 P.O Box 10-9009  
 1000 Monrovia, 10 Liberia  
**E-Mail: [proumoh24@gmail.com](mailto:proumoh24@gmail.com)**  
**IFB No: MOH/EPI/GAVI/QCBS/001/2025**

Sign: \_\_\_\_\_  
**Director of Procurement**



