

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

REQUEST FOR EXPRESSION OF INTEREST
FOR
Consulting Service for the Development of comprehensive Electronic Medical
Records / Electronic Health Records (EMR/EHR) system (IFB No:
MOH/5993/QCBS/001/2026)

Background

The Government of Liberia through the Ministry of Health has received funding in grant from a humanitarian foundation under project code 5993 for enhancement of a resilience and sustainable health care delivery system in. The Ministry intends to apply portions of the proceed from the grant to payment under a contract for Consulting Service for the Development of comprehensive Electronic Medical Records / Electronic Health Records (EMR/EHR) system. Health facilities require reliable, secure, and interoperable electronic systems to manage patient records, clinical workflows, and administrative processes. Fragmented paper-based systems and isolated digital tools limit continuity of care, data quality, reporting, and decision-making.

The Ministry of Health seeks to develop a comprehensive Electronic Medical Records / Electronic Health Records (EMR/EHR) system that supports clinical care, pharmacy operations, laboratory services, referrals, and administrative management. The system must function effectively in low-connectivity environments, integrate with national health information systems such as DHIS2 and mSupply, and support future interoperability through open APIs.

Currently, most Primary Health Centers (PHCs) rely on paper-based record-keeping systems, which present significant challenges including limited continuity of care due to fragmented patient records, poor data quality affecting clinical decision-making, delays in reporting to the national HMIS, inefficient pharmacy and laboratory management, and limited ability to track patient outcomes.

The solution will be deployed initially in selected health facilities and designed for scalability to additional sites.

Overall Objective

To design, develop, deploy, and support a secure, interoperable, offline-capable EMR/EHR system that improves patient care, operational efficiency, data quality, and health system management at health facilities in Liberia.

Specific Objectives

- Develop an EMR/EHR system that captures and manages patient clinical data across multiple service points.
- Ensure interoperability with DHIS2 for reporting and mSupply for medicines and commodities management.
- Provide offline-first functionality with reliable synchronization between facility-level servers and a central server.

- Support administrative and human resource management processes with interoperability with the Ministry's Human Resource Information System.
- Enable easy integration with external systems through secure and well-documented APIs.
- Provide a customizable Role-Based Access Control (RBAC) system to enforce data security and access policies.
- Deliver web-based, desktop and Android mobile applications.
- Build local capacity through documentation, training, and source code handover.

Scope of Work

The Developer will be responsible for the following tasks:

A. System Architecture and Design

The system shall implement a fully decentralized offline-first architecture in which both facility-level and central-level servers function as full EMR instances, not merely a primary system and a passive aggregator.

Roles and Responsibilities

A. Developer / Vendor Responsibilities

- Design, develop, test, and deploy the system per specifications.
- Ensure system security, quality, and performance.
- Configure DHIS2, mSupply, HRIS, and EIR integrations, and configure the Birth and Death Notification Form templates per MOH-supplied layouts.
- Provide all required documentation.
- Conduct training for all user categories.
- Provide twelve (12) months of post-deployment support.
- Transfer complete source code and intellectual property to MOH.

B. Ministry of Health Responsibilities

- Provide policy guidance and requirements clarification.
- Facilitate access to DHIS2, mSupply, HRIS, EIR, and necessary infrastructure, and supply the official Birth and Death Notification Form templates and field requirements.
- Provide data element mappings for DHIS2 reporting.
- Coordinate with facilities for deployment.
- Identify and prepare pilot sites.
- Participate in testing and user acceptance.
- Ensure availability of training participants

C. Liberian Personnel Requirement

To strengthen local capacity and ensure sustained in-country presence throughout the engagement, at least two (2) of the six named Key Personnel shall be Liberian nationals or shall be based in Liberia for the full duration of the engagement. The Vendor may select which two (or more) of the six roles satisfy this requirement but shall clearly identify the Liberian / in-country personnel in their proposal.

D. Substitution of Key Personnel

The Consultant shall not substitute any named of Key Personnel after contract award without the prior written approval of the Ministry of Health. This requirement applies to all six named Key Personnel and to both technical and program-management roles. Where substitution is unavoidable (e.g., resignation, illness, or other circumstance beyond the Vendor's control), the Vendor shall

propose a replacement of equal or better qualifications and experience for MOH approval before the substitute begins work. Unauthorized substitution shall be grounds for the Ministry of Health to suspend or terminate the engagement.

Ownership and Intellectual Property

All deliverables produced under this Terms of Reference, including source code, documentation, data models, APIs, and training materials, shall be the exclusive property of the Ministry of Health and the Government of Liberia.

The Developer shall impose no proprietary restrictions on future use, modification, or extension of the system by the Ministry of Health or its designated agents.

The Ministry of Health may:

- Use the system in any MOH facility without additional licensing fees.
- Modify or enhance the system internally or through third parties.
- Share the system with other government agencies.
- Release the system as open-source software.

To implement these services, the Ministry of Health (MOH), through its Procurement Unit, now invites interested and qualified international and local ICT firms with the documented evidence of technical and managerial expertise and backgrounds of system and data based development especially for security and health care solutions in Liberia, West Africa or other developing countries, to indicate their interests in developing comprehensive Electronic Medical Records / Electronic Health Records (EMR/EHR) system that supports clinical care, pharmacy operations, laboratory services, referrals, and administrative management

- i. Financial standing: Audited financial statements or minimum turnover requirements from recent year (2023, 2024 and 2025) to determine financial viability
- ii. Valid Business registration from the country of legitimacy
- iii. Valid Tax Clearance
- iv. Public Procurement Concession & Commission (applicable to Local Firms only)
- v. Past performance Records (at least three contract providing names, email addresses, telephone numbers, physical address, contract values, name of project, client name, etc)
- vi. Link of similar system developed
- vii. **Key staff: (Project Manager / Team Lead** - Education: Bachelor's degree in computer science, Information Systems, Engineering, Management, or a related field. Master's degree preferred. Experience: Minimum seven (7) years); **(Solution Architect**- Education: Bachelor's degree in computer science, Software Engineering, or a related field. Master's degree preferred. Experience: Minimum eight (8) years); **(Senior Full-Stack Engineer / Tech Lead** - Education: Bachelor's degree in computer science, Software Engineering, or a related field. Master's degree preferred. Experience: Minimum six (6) years)

Interested firm may obtain further information by sending a request via email or from the address below during office hours from 8:30 AM to 4:00PM, Monday to Friday, except for public holidays. The Expression of Interest and accompanying documents must be received by the Ministry of Health no later than Monday 29th, June 2026 at 2:00 PM local time or 14:00GMT. All firm must submit one original and three copies in English, enclosed in a sealed envelope clearly mark with the name of the firm and return address as indicated below

The Expression of Interest (EOI) should be addressed to the Director of Procurement and placed within the Tender Box situated on the ground floor of the Ministry of Health followed by an electronic copy on a pin drive.

Attention: Procurement Director
Ministry of Health
Congo Town, Tubman Boulevard
Monrovia, Liberia

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Please note that only short-listed firms will be contacted.

Approved: _____
Mr. Jacob L. N. Wapoe
Director of Procurement