



INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR IMPLEMENTATION OF A HEALTH INFORMATION SYSTEM FOR MONITORING AND EVALUATION (M&E)

This project involves the re-engineering of a National Electronic System for health information Monitoring and Evaluation in Mozambique. The current system, called Basic Module (Modulo Basico), is presently operational within the MOH (Ministry of Health) in all provinces and most districts of the country, including more than 130 installations. The main goals of the new system, called SIS-MA, are to modernize the current system, collect data on the health system and effectively provide quality and timely analyses to the health authorities. The outputs will be used to efficiently and effectively control the implementation and impact of health programs, allocate resources between these programs, identify operational and structural problems that require better management and plan the implementation of national priorities and programs. The detailed requirements for the new system are provided in Annex 2 (Portuguese).

This EOI is published to ensure that all stakeholders have the opportunity to submit full applications for funding. The publication of the EOI does not require any of the parties to conclude an agreement or to pay any costs incurred in making applications or in its preparation, or to acquire or retain the services or goods.

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1 Introduction

The aim of this project is the development or adaptation, installation and maintenance of a national open source software application and system defined as follows:

A multilingual (including Portuguese) open source software application suitable for a typical low resource setting, including Mozambique. The system must be capable of supporting national monitoring and evaluation, including the functionality to capture, import and aggregate health system data. The system must also have functionality to provide integrated, standardized, quality and synchronized reports as well as to analyse data and generate indicators. The system should be integrated with GIS, Business Intelligence, and other components, should adhere to local and international data standards and interoperability criteria.

The system should be able to interoperate or interface with other existing systems in order to integrate data from a variety of sources, including both data entered directly into the system as well as data exported from other computerized systems implemented at a range of healthcare and other institutions, such as electronic medical records (EMR) systems, laboratory information management systems (LIMS) and pharmacy systems, among others, in an open integrated architecture.

Monitoring, evaluation and surveillance systems aim to develop and maintain the regular and systematic standardized collection, analysis, interpretation and dissemination of health-related data for use in public health. In order to meet these objectives, the monitoring and evaluation system should be a component of a national integrated health information architecture and must include core functionality that includes (but is not limited to): data collection, standardized data storage, data transmission, interoperability with other applications, management of data quality, reporting, geographical representation and use of data.

It is expected that the new system will continue to focus primarily on the collection, aggregation, use and reporting of aggregate data but, in addition, will interoperate with existing and future information systems to improve the collection of clinical data from individualized record systems and also include enhanced functionality.

In order to be effective, the system must be capable of operating in the full variety of different environments found in Mozambique, including deep rural and isolated locations with limited infrastructure (eg security, water, electricity, computer hardware and software etc) technical limitations in maintenance and support, extreme environmental conditions (often without electricity) and limited or no network access. In order to achieve these aims, the system should take full advantage of modern technology and the support of public and/or private Internet networks (cable, telephone, radio, cellular, satellite, etc).

The Country of Mozambique is made up of 11 provinces with more than 138 districts and 1,400 health facilities and the real possibility of future expansion. The target implementation sites for this system include all health facilities that are actively involved in collection, registration, transmission and processing of data from health structures operated by the MOH in Mozambique.

The contracting entity for this project is “Jembi Health Systems NPC” s South African non-

profit company, based in Cape Town, South Africa, with funding provided by the United States Government. Jembi works in close cooperation with mOASIS (a project of the University of Eduardo Mondlane). Both organizations are working under delegated authority for this project from the Ministry of Health of the Republic of Mozambique.

Ownership of the project belongs entirely to the Mozambican MOH that will be the final authority in respect of all relevant project decisions. Among other responsibilities, Jembi will facilitate the execution of the project activities, manage the tender process, follow-up contract activities, assure quality, transfer historical data and transfer technologies to local Mozambicans to ensure the continuity and sustainability of the system.

The HEALTH INFORMATION SYSTEM FOR MONITORING AND EVALUATION (SIS-MA) should be implemented according to the Information System for Health (SIS) plans and strategic planning of the MoH in a controlled manner, followed by implementation of a pilot and subsequent final national installation and maintenance at all sites. SIS-MA will replace the current monitoring system (SIS-Basic Module) and associated functions, such as geographical representation through GIS and interoperability with other health information systems existing or under development. SIS-MA will also need to import all data currently loaded into SIS-Basic Module.

The process of developing and installing SIS-MA must include the integration of all existing modules and / or features in SIS-Basic Module, the other official subsystems (vertical programs forms and reports) as well as all support and maintenance activities, keeping in mind limitations in existing capacity and budgets as well as the future sustainability of the software and systems.

All project proposals submitted in response to this EOI must include the following phases from conceptualization to implementation:

1) Study

This phase provides for a review of the current applications in use, data flows and current methodologies within the MOH. Certain useful reports and documents produced by Jembi / mOASIS will be provided in order to facilitate and speed up this phase.

2) Proposal for software and methodology development

The project has adopted an open source policy and strategy (Open Source) which makes provision for the use of existing code, the development of new code or a combination of the two. All supporting software must follow the same open source policy.

3) Design of the application

Following on from Phases one and two, the successful vendor will produce a project plan for the entire software development process, including detailed description of the software components, development methodology, project plan, milestones and deliverables.

4) Development of software.

The software development phase includes the following:

- Adoption, customization, localization, limited development (if necessary)
- Development of all SIS reports and indicators
- Migration of historical data
- Interoperability and Integration with other eHealth software and systems (SIS)

- Implement system for collection, collation and transmission of data
- Laboratory and load testing

This phase is highly sensitive and any disruption should be avoided while also providing an opportunity for passive monitoring of the work by technicians from all interested parties to begin the process of transferring knowledge and experience. The contractor/vendor will need to actively assist with this transfer of knowledge.

5) Installation and testing

The first phase of installation and testing should be directed at the web components and all functions that require constant Internet connectivity. The tests must demonstrate that the components can operate successfully in offline mode and that all functions are operational in the absence of consistent Internet connectivity and with delayed data transmission. This phase should include the Provincial Health Directorate and a minimum of three districts (urban, rural and semirural).

6) Training of users and technicians

This phase includes training and the production of teaching material in various formats, including video, podcast and manuals. Close collaboration between the contractor and the vendor will be frequent.

7) Implementation.

During this phase, the system will be placed into production. The new system will operate alongside the current systems for a period of time after which it should be fixed according to the previously completed analysis and testing. This period of overlap should ensure the continuity of information services for the MOH as well as transition to the new system. The implementation should occur across the country in the same facilities where the SIS-Basic Module (MB) is presently installed.

8) Maintenance and Support.

Respondents should define a period during which time the system is monitored in order to rapidly address any technical failure and complete the transfer of experience and technical knowledge to the MOH to ensure technical autonomy.

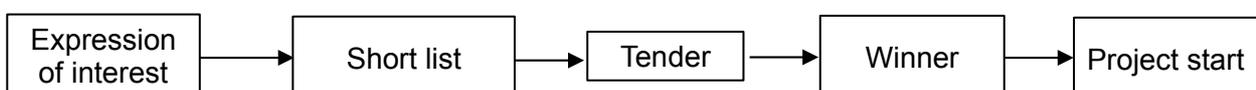
The above mentioned phases are all the responsibility of the vendor.

The aim of this EOI is to produce a list of entities (companies, organizations and other legal persons) who eligible for the development of a full proposal.

Technical standard of proposals will be assessed on the basis of plans, models, warranty conditions and budgets. The ability to forecast potential risks, exceptions and modifications to the workplan is also an assessment criterion, taking account the fact that a well-conceived plan has a low probability of being subject to exceptions.

An important strategic element of success of the project as a whole is the physical presence of the vendor in the territory of the Republic of Mozambique. This may also be achieved through local partners who, in this case are subject to review by the contractor.

The general flow of events is included in the diagram, below.



2 Modality of participation

Expressions of interest must be submitted in Portuguese and English. The two languages are necessary in order to fulfil legal obligations both in Mozambique and South Africa

Expressions of interest must annex documents and certificates that satisfy the following mandatory requirements:

Legal Requirements

- 1) Company name
- 2) Legal documents of registration of the vendor according to the law of the country of registration, legally translated into English, that offer compatibility with the documents required in Mozambique and South Africa
- 3) A legal document that empowers the representative to represent the vendor in respect of this project.
- 4) Detailed description of the legal and physical presence of the vendor in Mozambique during all phases of the project, ensure the presence of senior staff and coordinators for all phases of the project. Participants may come in the form of partnerships or pre-existing consortia or may consider partnerships for the project in all or some stages. In these cases a proper certification must be annexed.

Technical Requirements

- 5) Company summary and capability statement of the participant. History of previous work (max 2 pages)
- 6) Description of scope of services provided and focus areas (max 1 page)
- 7) Technical / administrative structure of the participants (max 1 page).
- 8) List of similar projects, dates and contact persons who were responsible for implementing them. The list should consist of a reference table that contains the following columns: project name, brief description, start date, end date, name and contact information of those responsible (max 3 pages).
- 9) At least two letters of recommendation confirming the execution of similar projects
- 10) General plan for the project and the time line for implementation of all phases indicating the interdependence and sequence of events and cost estimate for each phase of the project (max 2 pages).

11) An executive summary describing how the proposed project will address the areas of intervention, the details of the areas of geographic focus, strategy and summary of proposed activities. Activities should be grouped by project phase (maximum 1 page).

12) Technical Approach: a description of technical strategy and methodology for each phase of the project. For all technical activities, candidates must submit clear proposals for coordination with the institutions involved in the project (Jembi, MOASIS, MOH, provinces and districts) (maximum 2 pages).

13) Key Personnel and Management Plan (maximum 2 pages): The applicant must propose appropriate key technical staff to implement each phase of the project. For each key employee include the name and a brief description of the experience and ability relevant to the description, roles and responsibilities of the project. CVs of key employees should be included as an attachment and use the EU template EroPass¹ in Portuguese. The plan must describe the roles and responsibilities of employees involved in the project for each phase, including lines of supervision, accountability, decision making and where staff will be based. It should also be included as an attachment an organizational chart for project management

14) Certificate of educational and professional qualifications of those responsible for project implementation could be requested.

Financial Requirements

15) Accounting and tax information in accordance with the laws of the country of origin legally translated that offer compatibility with the documents required in Mozambique and South Africa – Documents requested: Past 3 years audited accounts, Tax registration certificates and tax clearance certificate.

¹ <http://europass.cedefop.europa.eu>

3 Participation request indicators

Submissions in respect of this EOI should include the following information:

- 1) Compliance with the conditions prescribed in chapter 2
- 2) Visual aspect of expressions of interest and respect of the editing prescriptions
- 3) Characteristics of the professional team members
- 4) Financial capacity
- 5) Knowledge and experience specified
- 6) Estimate cost of Proposal divided for each phase

4 Reasons for Exclusion & Disclaimers

- 1) Failure to comply with the conditions indicated in chapter 2 of this EOI document
- 2) Existing legal issues that may negatively affect the working relationship of the parties
- 3) Failure to comply with deadlines and procedures given in chapter 6
- 4) Evident and demonstrated conflict of interest.

The applicable law governing this project will be the laws of Mozambique and South Africa.

Jembi also observes the ethical protocol that interprets the family, professional and financial contiguity as conflictive.

Jembi reserves the right to reject any or all proposals submitted and/or to negotiate with any qualified candidate organization and/or to take decision with regards to this EOI and project without further negotiation with candidates if this action is considered in the best interest of Jembi and the MOH of Mozambique.

Jembi further reserves the right to amend, add or cancel any financial, legal or technical or other requirements cited in this document, either before or after the submission of expressions of interests and/or short-listing of vendors and without any notice to vendors and without affording them a further opportunity to submit further expressions of interests in accordance with the aforementioned amended, added or cancelled requirements and accepts no liability for any damages which may result from such amendment, additions or cancellations of the aforementioned requirements.

5 Evaluation of request for participation

The evaluation of proposals will be based on the following criteria:

Category of proved services	Points
Experience in developing and deploying Open Source Information Systems in the public service at national, provincial and/or district level.	15
Experience in developing and deploying Health Information Systems, including aggregated data for monitoring and evaluation in developing countries.	15
Knowledge and/or experience in the identification, survey and documentation of health care processes, using the methodologies proposed for this project	15
Experience in teaching and training Health Information Systems and standards for Health Information	15
Experience in the support and maintenance of computerized information systems at a national level	10
Experience and qualifications of the key personnel being proposed	10
Organizational financial strength and ability to sustain the project through its completion without delays.	10
Availability of communication technology to facilitate discussions, review, information exchange and monitoring of the project by the contractor and the vendor.	10

TOTAL 100

In the case of a tie, the total costs estimate will be a decider.

6 Terms and conditions for participation

Expressions of interest must be submitted by email before 5.00 pm (South African Standard Time) on 13 June 2012 to the following email address:

moasis@sis-ma.info

7 Contact Information

Additional information concerning the SIS-MA project is published at the following Internet site:

<http://sis-ma.info>

Enquires can be sent to the moasis@sis-ma.info mail and will be responded with public access in the <http://sis-ma.info>

1. Base Module evaluation (Portuguese)

D-Modulo_Basico_Relatorio_Fase_1.pdf

2. SIS-MA requirements (Portuguese)

E-MB_phase2_requirements_final1_portugues_gustave.23aug10.pdf

3. SIS-MA requirements (English)

MB_phase2_requirements_final.pdf

4. Curriculum Vitae Europass format (Portuguese)

H-CVTemplate_PT.pdf

5. Curriculum Vitae Europass format (English)

CVTemplate.pdf

6. Instruction for CV Europass format (English)

CVInstructions.pdf

7. Instruction for CV Europass format (Portuguese)

G-CVInstructions_PT.pdf