

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



National Centre for Information Technology
Ministry of Finance and Treasury

TOR: PHP Software Developer

1. Background

The Government of Maldives (GOM) has initiated a project towards the design and development of a National E-Government Framework (MEGF) for Maldives. The project is supported the GOM with the National Centre for Information Technology (NCIT) as the Executing Agency. In addition, the project will be required to undertake the services of a Network Administration and Security Expert.

List of Abbreviations

GOM	Government of Maldives (Executive, Judiciary and Legislative branches)
NCIT	National Centre for Information Technology
MEGF	Maldives E-Government Framework
GNM ¹	Government Network of Maldives

2. No of Consultants required

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3. Objectives

The Software Developer Specialist will be responsible for the design, development & integration of MEGF Enterprise Architecture software applications required to support the day to day operation and the decision making process in line with GOM e-government Strategy. Many of the required applications will be deployed for Web-based access for GOM to provide public services through online systems to the citizens located throughout the country.

4. Scope

The specific tasks related to this Consultancy address the Application Design and Coding of the MEGF, and provision of the ICT Plan for its development and implementation.

- 4.1. In coordination with the NCIT, the candidate will , design and implement computer application Systems, modules and any software components needed to support GOM e-government strategy, programs and projects;
- 4.2. Develop Systems and module graphical interfaces, web modules, database modules, application reports and statistics, and any software components needed to deliver complete and

¹ GNM is also referred as National Computer Network and has been in implementation. The network connects sparse inhabited islands of the Maldives via Telecom Operators and through NCIT own Fiber network.



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- functional applications Systems required by the MEGF Information Systems;
- 4.3. Perform all necessary software maintenance, including coding, testing, debugging, upgrading and modifications of software.
 - 4.4. Apply software development methodologies as directed by Senior Executives to develop, implement and test Systems and software components;
 - 4.5. Design, develop and implement Systems and software technical specifications based on business requirements and maintain Systems and software documentation in order to facilitate maintenance and upgrade activities.
 - 4.6. Provide the necessary technical support and work on a team basis to all members of the IS team to accomplish the software development and implementation tasks requested by the office of the Chief of CIOs (CIO Unit). Contribute technical and professional knowledge and experience to improve Maldives E-Gov Web Portal operations and technical platform.
 - 4.7. Develop and provide a monthly software project status report describing the development of the above activities and any issues that may emerge, with conclusions and recommendations in regards to the GOM e-government strategy development operation.
 - 4.8. The following will be considered as an added advantage;
 - 4.8.1. Ability to implement and troubleshoot programming changes and modifications, to program, configure, manage, and maintain the operation of complex relational databases.
 - 4.8.2. Ability to develop and manipulate large complex data sets.
 - 4.8.3. Knowledge of computer and / or network security systems, applications, and hardware.
 - 4.8.4. Knowledge of data integrity methods and techniques.
 - 4.8.5. Ability to perform acceptance testing on computer systems, applications, and hardware.
 - 4.8.6. Ability to install, maintain, modify, and upgrade database software.
 - 4.8.7. Technical writing skills.
 - 4.8.8. Knowledge of current technological developments/ trends in area of expertise.
 - 4.8.9. Ability to operate on a scheduled 24-hour on-call basis.
 - 4.8.10. Strong inter- personal and communication skills.
 - 4.8.11. Output-oriented



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5. Transfer of Knowledge

It is the policy of the GOM that the transfer of knowledge and skills to the Project Team is an inherent part of external consultancy assignments, as far as is practical and appropriate. Therefore, the approach to the task must be participative. The consultant must respond to this policy requirement through hands on training, workshops and/or other suitable methodologies.

Strong emphasis will be placed on skills transfer to the team assigned to the project. The consultant must involve the NCIT Project Teams in all phases of the assignment, so as to practically and effectively transfer skills and secure 'buy-in' and ownership of the institutional systems and procedures developed.

All information, documents, reports and materials will become and remain the property of the GOM and the Consultant does not have any rights to copy, retain, reproduce, use or disseminate without the written approval of the NCIT.
6. Reporting

The Consultant will report to the Executive Coordinator at the NCIT
7. Duration

The duration of the contract will be 24 Calendar Months subject to renewal based on performance or based on future need.

The Consultant is entitled to designated leave follows.

 - 7.1. Annual Leave of 30 day for every 12 Months block
 - 7.2. Sick leave 10 Days for every 12 Months block
8. Qualification

The Consultant should possess the following key professional competencies (or substantially equivalent) for the assignment:

 - 8.1. Bachelors' Degree (or higher degree) in Information and Communication Technology, Computer Science, Computer Engineering or related field.
 - 8.2. At least 5-7 years' work experience in software development.
 - 8.3. Applicant should have a strong background in Systems design and implementation (modelling and documentation), including knowledge and experience with Systems lifecycle development methodologies.
 - 8.4. Comprehensive knowledge and experience in developing web application using PHP web frameworks
 - 8.5. Strong knowledge of HTML, CSS, Javascript, JQuery,
 - 8.6. Excellent knowledge and work experience on designing and developing complex enterprise level software applications
 - 8.7. A solid understanding of how web applications work including security, session management, and best development practices
 - 8.8. Strong knowledge of the common PHP or web server exploits and their solution



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- 8.9. Proficient understanding of code versioning tools.
 - 8.10. Mobile development experience (iOS and Android) an advantage
 - 8.11. Experience in quality code reviews of other developers
 - 8.12. Experience as a lead developer, supervising developers
 - 8.13. Strong communication, problem solving skills and the ability to meet deadlines in a fast paced environment
 - 8.14. Ability to focus under pressure and deal with ambiguity
 - 8.15. Excellent interpersonal and written communication skills
 - 8.16. The ability to work well in a team environment
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9. Remuneration package
 - 9.1. The consultant will be paid a total remuneration US\$ 1320.00 in United States Dollars as per the following breakdown.
 - 9.1.1. Salary of US\$ 1000.00
 - 9.1.2. Living Allowance of US\$ 300.00
 - 9.1.3. Phone allowance of US\$ 20.00
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10. Accommodation package
 - 10.1. GOM will provide a furnished room with attached toilet on dual sharing basis.
 - 10.2. Kitchen and laundry facility will be available in the apartment. The rent of the apartment will be paid by GOM.
 - 10.3. GOM will also bear limited charges for electricity, water, gas and internet. Should these go above the threshold, it should be borne by the consultant and will be deducted from the remuneration.
 - 10.4. Consultants are responsible for all items within the apartments and would pay for any damages during their stay.
 - 10.5. The consultant will be provided One Economy Return ticket per year.
 - 10.6. The consultant's visa and work permit and insurance will be arranged by GOM.
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11. Working Hours Full time: 8:00am – 3:00pm (if required, time should be adjustable in order to achieve the objectives)

In this context, the National Centre for Information Technology invites interested candidates to send applications, along with relevant documents to:

National Centre for Information Technology
64, Kalaafaanu Hin'gun,
Male', Republic of Maldives
Phone: + (960) 334 4000/ Fax: (960) 334 4004
OR email to: employment@ncit.gov.mv