



TERMS OF REFERANCE

FOR THE PROVISION OF PROFESSIONAL TECHNICAL SERVICES

1. Introduction and Background

The Palestinian Hydrology Group (PHG) is a Palestinian NGO and an independent specialized institution dedicated to develop and protect the water and environmental resources; to insure more public accessibility to adequate water supply sources and sanitary conditions; and to develop a proper information systems and technologies. PHG is implementing the project **“Improving the efficacy, accessibility and sustainability of WaSH services in the Occupied Palestinian Territory (OPT) and the response capacity of humanitarian actors through developing early warning indicators”** funded by **Ayuntamiento de Valencia** through **Asamblea de Cooperación por la Paz (ACPP)**, the project is aiming to establish an early warning system to guide humanitarian interventions, a common and transparent methodology for the collection of data and information on WASH, as well as common indicators for their measurement and analysis. All of this will improve the national WASH-related emergency anticipation capabilities of the main obligations and responsibilities holders involved in emergency response and WASH service provision in the TOPs. Therefore, PHG is looking to hire an external consultant to develop interactive GIS map for WaSH early warning indicators as well as updating database, website and data collection system of early warning indicators.

2. Objective

The purpose of this service is to develop interactive GIS maps of WaSH early warning indicators and provide training to technical staff so that they are able to update and maintain the maps on their own, also to update database, website and data collection system of early warning indicators of WaSH.

3. Expected Results and Deliverables

1. Developing interactive GIS maps of WaSH early warning indicators

Specifications:

- GIS/Interactive Maps Reports
- Integration with Google Maps
- Data Grouping
- Map hover popups with photos
- Map Filters
- Hide view Map Layers
- Ability to Print Map



- Ability to export map data to XLX/PDF
- Hyperlinks on map results for more detailed reports

4. Updating the database, website and data collection system

This Task aiming to determine the high-level business and system requirements needed to meet the project objectives and any additional information. Extensive analysis will be done and will provide full definition for the system functional scope and will produce accurate information, functionality, and process models for the all system areas.

Specifications:

- Web Based MIS
- Back End : PHP (Codigniter or Laravel) or Paython (Jango)
- Database Engine (MYSQL or Postgrate)
- Front End : HTML5/CSS3/JS
- Full Mobile Responsive CP
- Data Indexing and Optimizations
- System Workflow Setup
- API's Support
- HTTPS Support
- Data Attachment Support
- Security Optimization
- Data Protection
- Multi Roles Users
- EN/AR Language
- Operating Environment : From any Internet Browser / Need Internet

Deliverables: Full System Technical Sheet

- Functional Requirement Sheet
- Design Concept.
- Home and internal pages Designs.

3. Coding & Development

Technical development and coding process and will include:

- Database development
- Backend (CMS)development
- Frontend development
- Building system Modules
- System configuration
- System optimization
- functional testing
- Preparing Testing Cases
- Updating / Migrating Content



Deliverables:

- Beta Version / system testing release
- final System Design Document
- System Test Cases Specification document.
- Testing reports.
- System optimization report

4. Testing and Quality Assurance

Actual functional testing and will include

- Setup testing environment
- Testing cases Implementations
- Quality Assurance
- Bugs fixing
- Updates and modifications

Deliverables:

- Beta Version release
- Modified System Design Document
- Testing reports
- System optimization reports.

5. Rollout and launching

Preparing for project launching and will include finalizing tasks, training and final documentation.

Deliverables:

- Launching first release
- Final System and project Documentation
- Users manuals
- Training Sessions

4. Duration and Place of Work

This service will commence as soon as possible and the duration of the contract will be three months from the start date. Specific duration will be stated in the service agreement once the service is offered.

5. Required Documents

Interested Service Providers need to submit the following:

- An overview and examples of past online knowledge management and/or discussion platforms delivered, preferably open source and with other international organizations, including an overview/presentation of the Service Provider and contact details of references;



- A work plan including start date and date of completion of deliverables, a proposed approach for the assignment based on the information provided above;
- Financial offer with a breakdown of expected services and associated costs, including VAT for the completion of all deliverables.

6. Submission of Tenders

Tenders must be sent by e-mail to abd-aburahma@phg.org, no later than **5 May 2022**. They must include all the documents specified in point 5 or to be sent to the following address:

Full Postal Address

Palestinian Hydrology Group (PHG)
21 Emile Habibi Street
Al-Masyoun, Ramallah
Palestine

If the tenders are hand delivered, they should be delivered to the above address during the opening hours: **Sunday- Thursday- 8:30 am – 3:30 pm**

7. Financial Offer

| No. | Output - Item | Value in Euros (including VAT) |
|------------------------------------|---|-----------------------------------|
| 1 | Database and web page update service | € |
| 2 | Data collection system update service | € |
| 3 | Creation and design of an interactive GIS Map with Early Warning Indicators data. | € |
| Total Value (including VAT) | | € |

Place _____, date _____

Tenderer Name _____

Signature and stamp of the tenderer