

INDIVIDUAL CONSULTANT PROCUREMENT NOTICE

Date: 26 March 2020

Post Title:	Consultancy-International Expert, Smart Data Integration
National or International Consultants:	International Consultant
Duration:	One year
Location:	Riyadh, Saudi Arabia Head Office, Ministry of Environment, Water and Agriculture
Project:	Capacity Development and Related Services for an Integrated Sustainable Development and Management of the Water Sector in the Kingdom of Saudi Arabia in the framework of the VISION 2030
Note	This consultancy assignment will be under Ministry of Environment, Water and Agriculture (MEWA). UNDP is facilitating in disseminating the advertisement as counterpart to the MEWA. The consultant will be hired under MEWA contract. However, UNDP will also act as a sponsor and provide the required residence and working permit. Working place will be the MEWA Headquarter in Riyadh. The Project duration is 2 years, there is a possibility for extension for additional one year.

CONTEXT/BACKGROUND: During the last years, the Ministry of Environment, Water and Agriculture (MEWA) initiated an ambitious program for the investigations of its major surface and groundwater resources, for the monitoring of these resources, for the study of hydrological resources (research side), and for the management of the resources (management side). While most of these tasks have been completed or are about to come to an end, the implementation of most of the necessary measures is in its very early stages and hampered by the increasing workload in the ministry. The still rapidly increasing population mainly counteracts the successes the Saudi government and MEWA have achieved in sustainable resources water management through its reforms.

To make a transition from the current patterns of water administration to sound water management mode, two things must happen.

First, there is strong need to strengthen the technical and organizational capacities of the MEWA to deal with the triple challenge of water exploitation and distribution (operational side), research for additional resources and cutting-edge technologies to satisfy the increasing demand (research side), and rigid control and administration of all water-related aspects (control side).

Second, a sound information base covering data on groundwater availability, quality, withdrawal, and usage is about to be put in place.

This information system has two components, the National Water Database and the Water Management and Control Center. The latter will serve for daily routine work and inquiries for Integrated Water Infor-

mation and Management, but also as an Emergency Control Room with live-feed of data from all stakeholders.

SCOPE OF WORK AND DELIVERABLES

Objective within the Framework of the UNDP Project

The Ministry of Environment, Water and Agriculture (MEWA) has the mandate to manage and protect the water resources of the Kingdom. During last 10 years, MEWA has conducted a number of detailed studies for surface and groundwater resources assessment which were used for long term, sound and sustainable management of water resources. All these data, plus all other data relevant for the water sector, shall be stored and managed centrally in MEWA. For this purpose, MEWA is presently developing an Integrated Water Information and Management System (IWIMS). This system has two components (National Water Database, Water Management and Control Center) and five major objectives:

- To collect and store all water-related data from the Kingdom;
- To collect and integrate data from other stakeholders and their database environments.
- To access real-time data on water resources, water abstraction, and meteorology;
- To display these data in a control room for every-day control and for emergency cases;
- And ultimately, to management the entire water resources of the Kingdom in a sustainable way.

The integration of the geospatial and other data from the stakeholders into MEWA's system shall be based on "Smart Data Integration". Hence MEWA has asked UNDP to help in the selection of an International Expert for these tasks.

Scope of Work of the UNDP Expert within the Framework of this Project

The tasks and responsibilities of the UNDP Expert are to:

- To advise on designing, implementing and reviewing MEWA's location-based data management strategies.
- To map the existing geospatial data infrastructure of the Kingdom, especially water related datasets.
- To connect to the stakeholders and develop concepts for the integration of their data.
- To closely cooperate with the General Commission for Survey, which is leading a program for spatio data provision for the Kingdom.
- To closely cooperate with both the responsible in MEWA for the establishment of the National Water Database and the Water Management and Control Center.

EXPECTED KEY DELIVERABLES

- Water Management and Control Center connected to stakeholders.

Expected Output 1st year

- Workshop with all stakeholders
- Conceptual Design Smart Water Integration system.

Reporting requirements, frequency, format and deadlines

The Consultant will report directly to the CTA. Together, they will develop a mutually agreed upon quarterly work plan with key milestones and KPIs. The Consultant will submit a quarterly progress report against these milestones.

<i>Deliverables/Outputs</i>	<i>Estimated Duration to Complete</i>	<i>Review and Approvals Required</i>
<u>Output 1:</u> After successful delivery of Outputs 1.	Quarterly	CTA - Ministry of Environment, Water and Agriculture.
<u>Output 2:</u> After successful delivery of Outputs 2.	Quarterly	CTA - Ministry of Environment, Water and Agriculture.
<u>Output 3:</u> After successful delivery of Outputs 3.	Quarterly	CTA - Ministry of Environment, Water and Agriculture.
<u>Output 4:</u> After successful delivery of Outputs 4.	Quarterly	CTA - Ministry of Environment, Water and Agriculture.

Duration of Assignment: Total contract duration is 12 calendar months. With a possibility for extension based on the need, performance and funds availability.

Duty Station and Expected Places of Travel, if any: The assignment will be based in Riyadh, Saudi Arabia at Head Office, Ministry of Environment, Water and Agriculture.

INSTITUTIONAL ARRANGEMENTS

Reporting Requirements, Frequency, Format and Deadlines: The Consultant will report directly to CTA - Ministry of Environment, Water and Agriculture. They will develop a mutually agreed monthly deliverable activity plan with appropriate timelines. The Consultant will submit a quarterly progress report against the agreed activity plan on a mutually agreed template. To carry out the work, the consultant is expected to liaise with government partners.

Working arrangements:

- All mission travels must be approved in advance and in writing by the Supervisor;
- United Nations Development of Safe and Security – BSAFE course must be successfully completed prior to commencement of travel; <https://www.undss.org/>
- The Consultant is responsible for ensuring they have vaccinations/inoculations when travelling to certain countries, as designated by the UN Medical Director;
- The consultant is also required to comply with the UN security directives;
- The consultant is responsible for obtaining any visas needed in connection with travel with the necessary support from UNDP;
- The consultant will be responsible for making his/her own mission travel arrangements in line with UNDP travel policies;
- The consultant is responsible for required health and life insurances related to work or travel;
- The consultant is expected to have his/her own Laptop/Computer.

QUALIFICATIONS and REQUIREMENTS

Education: MSc. in Computer Sciences with Geoscience Background;

Experience:

- Expert knowledge in different database systems;
- Minimum of 5 years of professional experience in geo-related projects;
- Demonstrated expert knowledge of standard practices within field of expertise, as well as applicable codes and regulations;
- Good (and demonstrated) organizing skills, preferably with development project management competency;

- Excellent and demonstrated communication, consultation, negotiation and drafting skills;

Languages:

- English, excellent communication and writing skills in English; as the position implies frequent contact with local authorities, also excellent communication and writing skills in Arabic are required.

Competencies:

Core Competencies:

- Strategic planning
- Innovation
- Organizational Awareness
- Developing and Empowering People / Coaching and Mentoring
- Works effectively in Teams
- Clear and concise communication
- Ethics and Values
- People Management

Functional Competencies:

Technical/ Functional:

- Strong knowledge and expertise in civilian policing aspects
- Builds support and good judgment
- Strong analytical capacities and ability to synthesize complex inputs into coherent documents
- Change agent including the ability to convince, convey and advocate.

Managerial:

- Focuses on impact and result for the client
- Coordinates/collaborates with all key stakeholders and build strong networks/ partnerships
- Effective team leadership with strong conflict resolution skills
- Establishes priorities for self and other members of the team; schedules activities to ensure optimum use of time and resources
- Demonstrates excellent oral and written communication skills

Behavior:

- Displays cultural, gender, religion, race, nationality and age sensitivity and adaptability
- Treats people fairly without favoritism
- Consistently approaches work with energy and a positive, constructive attitude

PRICE PROPOSAL AND SCHEDULE OF PAYMENTS

PRICE PROPOSAL AND SCHEDULE OF PAYMENTS (Standard text - do not change)

The contractor shall submit a price proposal as below:

Daily Fee – The contractor shall propose a daily fee, which should be inclusive of his/her professional fee, local communication cost and insurance (inclusive of medical health insurance and evacuation).

Travel and Visa – The contractor shall propose an estimated lump-sum for Home-Riyadh-home travel (economy most direct route) and Saudi Arabia visa expenses.

The total professional fee shall be converted into a lump-sum contract and payments under the contract shall be made on submission and acceptance of deliverables under the contract in accordance with the schedule of payment linked with deliverables

All proposals must be expressed in a lump sum amount. This amount must be “all-inclusive”. Please note that the terms “all-inclusive” implies that all costs (professional fees, travel costs, living allowances, communications, consumables, etc.) that could possibly be incurred are already factored into the final amounts submitted in the proposal.

The contractor will be paid an all-inclusive Deliverables/Outputs based lump sum amounts over the assignment period, subject to the submission of Certification of Payment (CoP) duly certified and confirmation of satisfactory performance of achieved work (deliverables/outputs) in line with the schedule of payments table hereunder:

Payment	Deliverables/Milestones	Schedule
Monthly Payment	Monthly payment upon submission and acceptance of monthly working plan and successful delivery of outputs	Monthly

** The CTA - Ministry of Environment, Water and Agriculture shall certify and authorize all payment instalments and accompanying payment invoices prior to payment.

**For each payment a certification of payment shall be signed and approved by The CTA - Ministry of Environment, Water and Agriculture attached to it explaining the accomplishment of the deliverables corresponding to the respective quarterly progress report.

Reimbursement costs/ travel costs will be paid on the basis of actual expenditure and should not exceed the approved amount in the contract calculation sheet.

RECOMMENDED PRESENTATION OF OFFER

Interested individual consultants must submit the following documents/information to demonstrate their qualifications. Candidates that fail to submit the required information will not be considered.

- a) Duly accomplished **Letter of Confirmation of Interest and Availability** using the template provided by UNDP;
- b) **Personal CV or P11**, indicating all past experience from similar projects, as well as the contact details (email and telephone number) of the Candidate and at least three (3) professional references;
- c) **Brief description** of why the individual considers him/herself as the most suitable for the assignment, including references to how she/he will approach and complete the assignment.
- d) **Financial Proposal** that indicates the all-inclusive total contract price, supported by a breakdown of costs, as per template provided. The terms “all-inclusive” implies that all costs (professional fees, travel costs, living allowances, communications, consumables, etc.) that could possibly be incurred are already factored into the final amounts submitted in the proposal. If an Offeror is employed by an organization/company/institution, and he/she expects his/her employer to charge a management fee in the process of releasing him/her to UNDP under Reimbursable Loan Agreement (RLA), the Offeror must indicate at this point, and ensure that all such costs are duly incorporated in the financial proposal submitted to UNDP.

All necessary information including: Complete Procurement Notice, The Selection Criteria, and Annexes are found on the following link under Procurement <http://procurement-notice.undp.org/>

EVALUATION

Individual consultants will be evaluated based on the following methodologies:

Step I: Screening and desk review:

Individual consultants will be evaluated based on the following methodology.

Applications will be first screened and only candidates meeting the following minimum criteria will progress to the pool for shortlisting:

- MSc. in Computer Sciences with Geoscience Background;
- Expert knowledge in different database systems;
- Minimum of 5 years of professional experience in geo-related projects;
- **Shortlisted Candidates will be then assessed and scored against the following evaluation criteria.**

Step 2: Technical Criteria – Maximum 70 points

Qualification and Experience (40 points) [evaluation of CV]:

- General Qualification;
- ✓ Expert knowledge in different database systems;
- ✓ Minimum of 5 years of professional experience in geo-related projects;
- ✓ Demonstrated expert knowledge of standard practices within field of expertise, as well as applicable codes and regulations;
- ✓ Good (and demonstrated) organizing skills, preferably with development project management competency;
- ✓ Excellent and demonstrated communication, consultation, negotiation and drafting skills;
- ✓ Experience developing project ideas, and develops science-and-technology based management and policy.
- ✓ Ability dealing with and managing communication channels (mass-communication, social media).
- ✓ Strong teamwork skills and ability to work effectively independently as a consultant and gap analyzer
- ✓ Strong quantitative and statistical skills
- ✓ Demonstrated ability to proficiently and effectively guide and manage interdisciplinary teams comprised of staff with diverse backgrounds and varied skill sets

Interview (30 points);

The panel may select 3-5 candidates for interview, whom obtained high score depending on the number of applicants.

**** Technical Criteria: weight 70% and Financial Criteria weight 30%***

Only candidates obtaining a minimum of 49 points (70% of the total technical points) would be considered for the Financial Evaluation.

Financial proposal – Maximum 30 points