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## REQUEST FOR PROPOSAL

**Companies/Firms/Organizations are hereby invited to submit a proposal for *Piloting Innovative Drinking Water Treatment and Safe Water Storage Technologies in Dispersed Rural Communities.***

### **Project Reference:**

“Enhancing Belize’s Resilience to Adapt to the Effects of Climate Change - 00083646”

### **Project Purpose:**

The Government of Belize (GOB), with the support of the United Nation’s Development Programme (UNDP) and with financing from the European Union (EU) has agreed to undertake a project aimed at building Belize’s capacity for climate change governance, with specific interventions in the water sector.

Climate change is now regarded globally as an overarching development challenge that can have serious adverse effects on the economic growth of countries, affecting food security, public health, social stability, and population vulnerability. The proposed intervention recognizes fresh water as being vital and finite and as a resource very vulnerable to climate change. Its linkages to economic growth, livelihoods, social cohesion and political stability of countries require that special attention be paid to the effective management of this resource.

The piloting of innovative drinking water treatment and safe storage of water in dispersed rural communities is seen as a direct link between climate change initiatives and the most vulnerable areas of the country. Water management efforts have to target the consumers and users of the resource. By piloting the use of rain water storage tanks along with proper water filtration system at the point of use (household), the responsibility of water management is then put in the hands of the user.

At the community level, where the national water company does not reach, this responsibility is usually put in the hands of water boards and the Department of Rural Development. Piloting new water storage and treatment systems for communities will allow many more households to benefit from potable water.

### **Consultancy Objective:**

The overall objective of the consultancy is to support the Government of Belize, through the Department of Rural Development in assessing ground water qualities and identifying appropriate treatment and storage technologies for households and communities which considers directly the quality of ground/rain water reserves.

### **Scope of Work:**

Under the supervision of the Department of Rural Development, the Company/Firm/Organization will (i) conduct a water quality assessment for identified water sources for twelve (12) rural community water systems to determine ground water qualities. This assessment should include drinking water quality

parameters to inform the requisite water treatment system needed for each community. Water quality technologies for potable water should be identified and installed on these 12 community water systems. (ii) Identify and install at least sixty five (65) household water treatment systems for the households identified by Rural Development. In relation to these, the following specific tasks should be undertaken:

**(i) Community Water Systems**

- Visit the communities identified by the Department of Rural Development.
- Conduct water quality testing on water from the main sources identified by the Department of Rural Development in these communities.
- Prepare a report on the results of the water quality tests. Report must show methodology for water quality testing, including the equipment used for collection and testing.
- In this report, based on the test results, recommend a treatment option specific for each of the twelve community water systems.
- Once agreed upon by the Department of Rural Development, procure and install these recommended options on the (12) community water systems identified.
- Once installation is complete, demonstration on the operation and maintenance should be done for community members in charge of each water system.
- Follow up with communities for 4 months after installation should be done to ensure the proper use/ functioning of the water treatment systems installed.

**(ii) Household Water Systems**

- Visit the households identified by the Department of Rural Development.
- Based on water test results, provide three (3) water treatment options to have drinking/potable water in the households identified.
- From these three (3) options, recommend one (1) that can be used on each household in that community.
- Once agreed upon by the Department of Rural Development, procure and install this recommended option on at least sixty five (65) houses.
- Once installation is complete, demonstration on the operation and maintenance should be done for members of the households.
- Follow up with households for 4 months after installation should be done to ensure the proper use/ functioning of the water treatment systems installed.

**Required Skills and Experience:**

***Education:***

- Task Manager should possess an advance degree in engineering, water management, natural resource management or related studies

***Experience:***

- Key personnel should have a strong background in the designing and installing water filtration/ treatment/ storage systems, engineering, and, preferably with working experience in Belize
- At least 5 years of experience working in this capacity in Belize

***Language:***

- English is the working language

**Duration of Assignment:**

Approximately 90 days over a period of four (4) months

**Submission of Application Package:**

Interested Companies/Firms/Organizations may obtain Request for Proposal package from:

**Stephanie Lozano**  
**Procurement Associate**  
**United Nations Development Programme Belize**  
**3rd Floor Lawrence Nicholas Building**  
**South Ring Road, Belmopan**  
**Cayo District, Belize C.A.**

Email: [procurement.bz@undp.org](mailto:procurement.bz@undp.org) or <http://procurement-notice.undp.org> Reference Number **17068**

**Deadline for Submission:**

25<sup>th</sup> August 2014

UNDP will not be responsible for any costs or expenses incurred in connection with the preparation or delivery of proposals.

*The United Nations Development Programme and the European Union are committed to achieving workforce diversity in terms of gender, nationality and culture. ALL qualified Companies/ Firms/ Organizations are equally encouraged to apply.*