

Terms of Reference (TOR) for
“Conduct a study on the community based drinking water supply management in the face of climate change.”

Introduction and Background:

The Department of Public Health Engineering (DPHE) is the national lead agency for provision of drinking water supply, sanitation hygiene promotion including and waste management in the country excepting Dhaka, Narayanganj, Chittagong, Khulna and Rajshahi cities where WASAs operate. In 2001 safe drinking water coverage dropped to 74% from 97% because of Arsenic contamination in groundwater (Annual Report 2010-2011, LGD. LGRD). Low river flows and increased evapotranspiration in dry period will substantially reduce the amount of available fresh water. In the coastal zone there is an additional effect of saline water intrusion in the estuaries and into the groundwater as a result of low river flow, sea level rise and local over-extraction. Reduced availability of fresh water will become a serious constraint as that will further be aggravated by growing demand due to population growth, economic development and climate change. Developing alternative options for safe water supply is a priority to address the impact of climate change as well as to ensure continuous supply of clean drinking water. Intensive research and design for alternative options for the community and mainstreaming them in the policy will help to reduce the community risk. Ministry of Disaster Management and Relief has taken initiatives through Comprehensive Disaster Management Programme (CDMP) with the assistance of UNDP to strengthen and integration of disaster risk reduction and climate change adaptation into the programmes, projects and policies through, pilot initiatives, capacity building and policy advocacy. DPHE is one of the implementer of this CDMP II.

There are many alternative options are in the field implemented by government agencies, NGOs and private sectors. Each agency has their own implementation and O & M modality. Under such situation, it is necessary to conduct a study on community based drinking water supply system in the field and to identify and document suitable and sustainable options that can provide safe water to the people of risk due to climate change indeed disaster.

Objective of the Consultant.

The consultant's main objective is to identify, test and replicate feasible alternative of safe water provision for the community in the high risk areas. This provision should be cost effective. The Consultant shall be responsible for finding a sustainable technology for the community based drinking water supply management.

Scope of work of the Consultant.

The specific activities to be undertaken by the consultant include but not limited to:

- Field visit.
- Data collection from existing various type community based drinking water supply in high risk areas and also exchange view with the community through FGD, interviews etc.
- Exchange views with local administrations; local government and DPHE field officials.
- Data analysis and feedback.
- Comparative study on various options fielded already from the context of sustainability.
- Find out the advantage and disadvantage of various type community based drinking water supply management in respect of social and technical aspects.
- Share the knowledge/findings with Project Director, Documentation and Monitoring officer and other staffs during study.
- Innovation of new community based water supply option.
- Present the draft final report in a meeting/workshop.

Qualification and Experiences of key consultant:

- Post graduation in Water Supply/Civil/Environmental/Water Resource/ Sanitary Engineering
- At least 5 years experience in WATSAN.
- Preference will be given for having experience of similar research in Water Sector.

Duration of the Assignment:

The duration of the assignment will be for 6 months.

Alhasan
29.9.14

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Deliverables:

- Inception Report within 15 days of signing contract-5 copies.
- Monthly Report within first week of the next month-3 copies.
- Draft Final Report at the end of the 5th month- 5 copies
- Final Report- 10 copies.

Mode of payment:

- Payment will be given in cash.
- 30% of payment will be given within 15 days after acceptance of Inception Report.
- 30% of payment will be given within 15 days after acceptance of 3rd Monthly Report.
- Rest 40% of Payment will be given within 15 days after acceptance of Final Report.

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29.4.14
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DPHE, Store Division, Dhaka

Mossam
29.4.14

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