

TERMS OF REFERENCE (TOR)

Consultancy Services

Individual/Firm to conduct “Situation Analysis of drinking water resources”

1. Background Information:

Pakistan Red Crescent (PRC) Sindh provincial branch is inviting for expression of interest from potential candidates/firms for the following assignment under the project ‘Improving Community Resilience in Karachi and Badin districts’ of Sindh, Pakistan. Water Sanitation and Hygiene (WASH) is one of the project result sectors, the project intends to provide clean drinking water to its beneficiary communities. In this context; we are looking for a firm/individual consultant (Pakistani) to carry out the following assignment under technical guidance of WASH expert (expat). This; in country consultant has to coordinate with WASH expert and work as a team to accomplish the assignment.

2. Location:

The 08 communities in coastal belt of taluka and district Badin.

3. Objectives & key questions of the study:

3.1. The following are the key objectives of the study:

3.1.1. To identify issues and challenges in regards to drinking water sources in context of current and possible future climate change impacts (Availability, Accessibility, Quality, Quantity etc.).

3.1.2. To suggest feasible, long lasting and cost-effective solutions to provide clean drinking water to the targeted communities.

3.2. Following would be the Key questions:

a) Water Availability

- Is underground water always available as main water source? What are the alternative water sources for the communities?

b) Water Accessibility

- Are water sources easy to access for all community members?

c) Water Quality

- Is the water from the aquifer suitable as drinking water? If not: Which contaminants are present?

d) Water Quantity

- Is the available water quantity sufficient to serve the communities? What SPEHERE standards could be applicable with respect to the desired quantity of water?

e) Sustainability

- Which measures are required to ensure sustainable water supply for the target communities?

4. Scope of the study:

The study has to be conducted for eight project communities in the coastal belt of district Badin. The study has to suggest clean drinking water solutions for a total of 980 households (6900 individuals), each community has 1200 (average) individuals. The solution can be separate for each community (decentralized) or one for more than one community (centralized)-based on the feasibility, cost effectiveness and access.

Possible activities could be, but are not limited to this (The consultant can suggest more):

- To investigate existing groundwater status (depth of aquifer, water availability, quality of drinking water etc.), utilizing information from the communities and to conduct a map yield test to assure the optimum quantity of groundwater for future planning and management.
- To conduct Participatory Rural Appraisal and Planning (PRAP) activities (e.g. focus group discussions and / or key informant interviews with community members and key stakeholders).
- To develop, individual GIS based scenarios for each targeted community (community location maps, identify groundwater source, water quality, etc.)
- Assessing already available water sources installed by govt. Or other stakeholders.
- Review of relevant secondary data/material.

5. Deliverables of the assignment:

The following are specific deliverables of the study:

- Conduct types of testing including micro-biological & chemical
- A comprehensive evidence based study report covering scope and objectives of the study- as defined under para 3 and 4.
- All supporting documents/evidences/reports.

6. Budget and arrangements:

- The agreed amount will be released at the successful completion of assignment.
- Amount shall be disbursed through crossed cheque on the name of firm/consultant or as per the financial procedure.
- The logistic within district or Karachi (as per need) will be provided by PRC. Whereas, the firm/consultant has to bear all other associated expenses (accommodation, food etc.).

7. Qualification and Experience of trainer or resource person

The interested resource person/firm should have the following minimum qualification and experience:

- Advanced degree in Integrated Water Resources Management or equivalent in a related field.
- Track record of doing same kind of assignments,
- Equipped person/firm with working experience in the same area,
- Good understanding of rural communities of district Badin,
- Good report writing skills,

8. Applications

Interested professionals/firms are requested to submit their CVs along with proposal (financial and technical) by or before **22nd March, 2019** to:

Mr. Sachal, Pakistan Red Crescent Society, Hilal -e-Ahmer House, Teen Talwar Karachi Ph:# 0308 5552804, the proposals should address the following points:

Technical Proposal must contain: Methodology, detail of team along with CVs, time frame and schedule/day plan.

Financial Proposal must contain: HR cost, technical cost (water testing, equipment etc.), accommodation and travel. All costs should be in Pakistani Currency.