

TORS FOR CONDUCTING A STUDY ON GROUNDWATER RECHARGE

1. Background:

The study will be conducted in Village Khoi Kaman, Tehsil Khanpur, District Haripur to assess the potential of groundwater recharge through construction of recharge pits/wells in the area. The study will focus on identifying suitable locations for the construction of recharge pits/wells, determining the recharge capacity of the area, and recommending appropriate measures to enhance groundwater recharge.

2. Objectives:

The objectives of the study are as follows:

- To assess groundwater recharge potential in Village Khoi Kaman, Tehsil Khanpur, District Haripur.
- To identify suitable locations for the construction of recharge pits/wells in the area.
- To determine the recharge capacity of the area and estimate the potential yield of the recharge pits/wells.
- To evaluate the existing recharge structures and suggest measures to enhance their effectiveness.
- To develop recommendations for the construction of new recharge pits/wells and provide guidelines for their maintenance and management.

3. Scope of Work:

The scope of work for the study will include the following:

- Site reconnaissance and data collection: A detailed survey of the study area will be conducted to collect information on the topography, geology, hydrology, and existing recharge structures in the area.
- Hydrogeological analysis: The hydrogeology of the study area will be analyzed to determine the recharge capacity of the area and estimate the potential yield of the recharge pits/wells.
- Selection of suitable locations: Based on the hydrogeological analysis and site reconnaissance, suitable locations for the construction of recharge pits/wells will be identified.
- Design of recharge structures: The design of the recharge structures will be developed based on the recharge capacity and the specific requirements of the study area.
- Cost estimation: The cost of constructing the recharge structures will be estimated.
- Guidelines for maintenance and management: Recommendations will be developed for the maintenance and management of the recharge structures.

4. Deliverables:

The following deliverables will be provided by the study:

- A detailed report on the assessment of the potential of groundwater recharge in Village Khoi Kaman, Tehsil Khanpur, District Haripur.
 - A map of the study area highlighting the suitable locations for the construction of recharge pits/wells.
 - Design drawings and specifications for the recharge structures.
 - A cost estimate for the construction of the recharge structures.
 - Guidelines for the maintenance and management of the recharge structures.
5. **Timeframe:** The study is expected to be completed within two weeks from the date of the contract signing.
6. **Reporting:** The study will be carried out by a team of experts in hydrogeology, geology, and civil engineering. The team will report to the project manager, who will oversee the study and ensure the objectives are achieved. A final report will be submitted upon completion of the study.
7. **Guideline for submission of proposal/expression of interest:**

Interested consultants should submit the following documentation to **Muzzammil Ahmed** (mahmed@wwf.org.pk) and **Maham Zahara** (mzahara@wwf.org.pk)

Work plan

- A technical proposal not exceeding 10 pages
- An understanding and interpretation of the TORs
- Methodology to be used in undertaking the assignment
- Time and activity schedule
- Evidence of relevant experience and samples of products related to the assignment
- Curriculum vitae of the lead consultants to undertake the assignment
- Work Plan
- A financial proposal consist of the cost of assignment in lump sum including all applicable taxes of the Government of Pakistan and out of pocket expenses.

8. **Selection Criteria:**

Applicant's proposal shall be evaluated based on Quality and Cost Based Selection (QCBS) method. Under QCBS both technical and financial proposals shall be evaluated as per following criteria against a maximum score of 100 points.

- a. Technical Proposal 70%
- b. Financial Proposal 30%

The following criteria shall be used as a basis for evaluation of technical proposals:

- Qualifications (maximum 30 points)
- Experience relevant to the assignment (maximum 30 points)
- Adequacy of the proposed methodology and work plan (maximum 20 points)
- Skills & Competencies for the assignment (maximum 10 points)
- Prior experience with WWF-Pakistan (maximum 10 points)

Note: Late/ incomplete submissions will not be accepted. Only three (03) top-ranked firms will be included in the comparative process.