



Ref: 137/ILES/SOUTH/23-24

RFP for Consultancy Services-WWF Pakistan

Subject:

Hydrogeological Study for AWS Standard Implementation in Landhi and Korangi Industrial Area of Karachi.

Application Submission

Interested consultants should submit the Proposal on Application Form Available Online or can access through following Link:

<https://forms.gle/ci9oAgNh98SrcuQW7>

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1) INTRODUCTION & BACKGROUND

Contract type: Consultancy and Services

Duration of assignment: 1.5 month, Days starting from 25th April 2024 till 9th June 2024

WWF-Pakistan, in partnership with Artistic Milliners, is implementing a Community-Based Project in Karachi. The project will be executed in close coordination with the communities to demonstrate water stewardship practices in the designated areas of Karachi. The overarching goal of the project is to foster community well-being and environmental health by instituting effective water

2) GENERAL CONDITIONS

- 1) The WWF-PAKISTAN reserves the right to reject or accept any proposal. The WWF-PAKISTAN reserves the right to proceed with the implementation of any Service, in whole or in part, as described in the Proposal.
- 2) The WWF-PAKISTAN reserves the right to engage in discussions with any BIDDER to clarify responses or discuss certain issues with regards to the proposal or services requested. The WWF-PAKISTAN has no obligation to notify the other BIDDERS of the discussions, clarifications, or other information provided by a BIDDER. Any additional information required for preparation of the BID shall be distributed to all participants at the same time.
- 3) The WWF-PAKISTAN reserves the right to award the proposal based on experience, qualification, completion date, service cost and other criteria, and not necessarily the lowest cost.
- 4) Based on the RFP BID the WWF-PAKISTAN is entitled to change/replace or omit any clause/part of the preliminary defined scope of services of the proposal. The WWF-PAKISTAN shall conduct negotiations with WWF to achieve the full compliance to the requirements.
- 5) The WWF-PAKISTAN reserves the right in the event the successful CONSULTANT fails to comply with the terms and conditions as listed, to cancel this contract and award it to another CONSULTANT without penalty or action against the WWF-PAKISTAN. The RFP does not constitute an agreement or order.
- 6) The RFP is not a binding agreement between the parties, submission of a proposal or response by a proponent is voluntary.
- 7) By submitting a bid, the BIDDER is deemed to have acknowledged all of the undertakings, specifications, terms and conditions, WWF Fraud and Corruption Prevention and Investigation Policy (Annex 2) contained in the RFP, and to be bound by them if the BID is accepted. All expenses incurred by the Bidder in connection with the preparation of its proposal are to be borne by the RFP participant, and the WWF-PAKISTAN shall not incur any obligation whatsoever toward the Bidder regardless of whether such bid is accepted or rejected.

3) PURPOSE OF CONSULTANCY

The purpose of this consultancy is to conduct a Hydrogeological Assessment of the Landhi and Korangi Industrial Area of Karachi. The study will be carried out as per the requirement of the Alliance For Water Stewardship (AWS) standard implementation for textile manufacturing industry covering majorly the AWS clauses 1.5.3 (Catchment Water Balance), 1.5.4 (Catchment Water Quality), 1.5.5 (identification of IWRA), 1.5.6 (existing and planned water related infrastructure) & 1.5.7 (adequacy of WASH services in catchment). This assessment will help understand the current water situation including quantity, quality and accessibility & adequacy in the Korangi and Landhi Industrial Area of Karachi. The hydrogeological assessment will focus on the flow patterns, identification of Important water related areas (IWRA) of the site, shared water-related challenges, groundwater recharge potential, details of the water pockets/aquifer, soil type and related geology that will help in understanding the water related risks & opportunities in Landhi and Korangi.

4) TASKS AND DELIVERABLES

The consultant(s) is expected to perform the following tasks and submit the following deliverables as per the timeline:

Tasks:

Identify Catchment (Surface water and Groundwater):

- Identify water catchment of Artistic Milliners manufacturing units in Landhi and Korangi, following the AWS (Alliance for Water Stewardship) standard guidelines outlined in the special subject section of the standard V2.0 on Catchments.

Topography, Drainage, Physiography, Geology and Soil Data:

- Conduct an in-depth analysis of the catchment's topography through the available data, utilizing precise maps and elevation data to identify prominent landforms and thoroughly assess slope characteristics.
- Employ geological maps to delineate rock types, formations, and structures. Conduct a soil survey to identify soil types, permeability, and pertinent soil characteristics.

Factory's Existing Wells Survey:

- Undertake a thorough survey of groundwater wells in the textile industry, evaluating well conditions, usage patterns, and potential impacts on groundwater quality.

Community/Stakeholder/Private Well Survey:

- Conduct a comprehensive survey of community, stakeholder, and private wells, documenting well locations, depths, and water usage patterns to gain a holistic understanding of local water needs.

Aquifer Properties, Groundwater Levels, Groundwater Flow Direction (Secondary Data):

- Collect and analyze available secondary data to discern aquifer properties and evaluate groundwater levels. Determine the direction of groundwater flow within the catchment. Utilize historical data to identify patterns, stresses and potential correlations with influencing factors.

Rainfall Data Gathering and its Analysis:

- Collect historical rainfall data for the catchments & analyze precipitation patterns, intensity, and temporal distribution.

Water Quality of Existing Wells (Primary Data):

- Conduct on-site sampling and analysis of water quality from selected existing wells to evaluate quality parameters. Ensure a comprehensive approach by collecting 8 to 10 samples per site for thorough assessment.

Catchment Water Balance:

- Carry out hydrological modeling to quantify water inputs and outputs within the aquifers and other sources. Determine and report the catchment water balance for Landhi and Korangi areas.

Quality of Aquifer for Drinking Water Suitability (Primary Data):

- Conduct on-site sampling and analysis of water quality from selected existing wells to evaluate quality parameters. Ensure a comprehensive approach by collecting 8 to 10 samples per site for thorough assessment.

Water Sanitation & Hygiene (WASH) issues:

- Thoroughly assess potential threats to drinking water quality in the catchment.

Shared Water Challenges & Opportunities:

- Identify shared water challenges and opportunities, fostering a comprehensive understanding of common issues affecting water resources.

Significant Groundwater Recharge Areas:

- Identify and cartographically represent significant groundwater recharge areas, meticulously assessing factors influencing recharge to gain a nuanced understanding of groundwater replenishment dynamics within the catchment.

Onsite Sewage Systems:

- Perform site inspections to assess the condition and efficiency of onsite sewage systems. Evaluate compliance with regulatory standards, considering potential impacts on groundwater quality and levels.

Risk Assessment:

- Conduct a thorough risk assessment, involving relevant stakeholders of the catchments and subject matter experts.
- Identify risks based on severity, likelihood, and potential impact on the site and from site to the other stakeholders.

Identification of Key Interventions/Initiatives for Risk Mitigation:

- Utilize risk assessment outcomes to inform the identification process.
- Employ a decision-making framework considering potential impact on risk reduction, alignment with goals, and feasibility.
- Conduct a cost-benefit analysis to assess the economic viability of each intervention.
- Seek input from relevant stakeholders, including experts.

Important Water Related Areas (IWRA)

- Identify IWRAs in the catchment.
- Assess the status of the IWRAs (minimum of three such areas), utilizing the guideline mentioned in the AWS Standard V 2.0 guidance document.
- Present a summary of all key IWRAs in the catchment.

Deliverables:

A separate report for each site (Landhi and Korangi, total 02 reports) covering the following scope of work (but not limited to):

1. Detail assessment of available water resources (ground and surface water), quality, quantity and accessibility
2. Quantify the catchment water balance, and assess water scarcity, providing insights into annual and seasonal variations.
3. Identify and quantify the water quality in the catchment, encompassing physical, chemical, and biological aspects. Address water-related challenges that pose threats to good water quality for both people and the environment, highlighting annual and seasonal variations in high and low statuses.
4. Identify and map Important Water-Related Areas, assessing their status, including potential threats to both people and the natural environment. Utilize scientific data and engage stakeholders to comprehensively evaluate the conditions of these areas.
5. Quantify annual high and low variances for extreme usage scenarios.

5) PROJECT/ ASSIGNMENT TIMELINE

Duration of assignment: 1.5 months, Days starting from 25th April 2024 till 09th June 2024

6) REQUIREMENTS

The interested consultant(s) should meet the following criteria:

Minimum requirements

- **Education:** The consultant should have a bachelors or master's degree in civil engineering/urban engineering and any other relevant degree. Additional degree in environment is a plus point
- **Experience:** At least 03-05 years in conducting hydrological assessment.
- **Skills:** GIS, data handling, report writing and survey skills

7) CORRESPONDENCE & SUBMISSION OF PROPOSAL

1. Application Submission: Interested consultants should submit the Proposal on Application Form Available Online or can access through following Link:

<https://forms.gle/ci9oAgNh98SrcuQW7>

To: Faiza khan (fakhan@wwf.org.pk)

Cc Muzzammil Ahmed (mahmed@wwf.org.pk)

1. The RFP submission deadline mentioned on WWF-Website.
2. Any information and responses to enquiries will be made in writing and distributed by email to all proponents. Enquiries after the foregoing deadline will not receive a response.

8) FORMAT OF THE PROPOSAL

The BID submitted by the participant must be structured as per the below provided instructions:

- 1) **Application Form available at WWF-Website** - General information about the Bidder, covering qualification, experience and CV.
- 2) **Experience:**
 - a) **Description of the complete projects:** the list and general information about the complete projects, description of the role in the project, other accomplishments of the Consultant.
- 3) **Proposal outlining scope of consultancy service-** Description of scope and working process, stages, deliverables, exclusions, conditions, methodology
- 4) **Provide list of already developed portals**
- 5) **Service Provision Timeline** – Provide Detailed Work Plan as per Deliverable and TORs.
- 6) **Financial Proposal-** the prices shall be provided in Pak Rs, the total price must be exclusive of all types of applicable taxes

Note:

Templates of all Information is provided on Application form available at WWF-Website. Any Additional Information related to the RFP can be attached along with application Form.

9) FINANCIAL PROPOSAL

The proposed prices shall be provided in PKR, the prices shall be provided in Pak Rs, the total price must be

exclusive of all types of applicable taxes.

The prices will include all the Travel, Boarding & Lodging and other expenses

The Payment Term: shall be defined by the contract to be concluded between WWF -Pakistan and the consultant.

10) EVALUATION PROCESS

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

11) DOCUMENTATION AND CONFIDENTIALITY

All documents completed based on requirements of the present RFP shall be the property of the WWF-Pakistan, and shall not without the consent of the WWF-Pakistan be used, reproduced or made available to third parties beyond what is necessary in respect of the fulfilment of the Project. All documents issued and information given to the BIDDER shall be treated as confidential.

12) BUDGET

Total Budget for this activity inclusive of all taxes and Out of Pocket expenses are **PKR 2,000,000/-**