Terms of Reference for conducting third part evaluation of the Replenishment project interventions

Background

WWF-Pakistan is implementing groundwater replenishment projects, with different stakeholders including corporates, government and private organizations, through multiple interventions including direct and indirect water conservation methods that are reliant on Nature based Solutions (NbS). To do so, the identified replenishment methods are listed below;

1. Rooftop rainwater harvesting system
2. Ablution water reuse system
3. Recharge well
4. Floating treatment wetland
5. Land cover management by developing riparian buffers
6. On-farm water management (agricultural practices)
7. Treated wastewater utilization from the plants

It is estimated that a combination of these proposed interventions will allow replenishment of 331,000 m³/annum in Lahore, Kasur and Multan districts, respectively, once the interventions will be fully operational.

Specific Tasks for the Auditing/Evaluating Firms

1. The evaluation team is expected to visit the intervention sites and replenishment numbers within the two districts including Lahore, Multan and Bhai Pheru.
2. The annual water replenishment potential (m3) analysis to be conducted by the evaluator for all interventions installed in Lahore and Multan uptil now (groundwater recharge well, ablution water reuse system, floating treatment wetland, laser land leveling and lining of water courses) in accordance with the corporate guidelines Volumetric Water Benefit Accounting (VWBA).
3. Verification of replenishment numbers of all installed interventions to be conducted by the evaluator.
4. Any tasks assigned by project teams/ Donor.

Required Qualification/Skill

AWS/PNAC certified lead auditor with minimum experience of 5 years in water budgeting analysis.

Deliverables

Comments to be submitted via the final auditing report.