

Request for Proposal (RFP)

FOR

Installation of Floating Treatment Wetlands

UNDER

COMMUNITY WATER STEWARDSHIP PROJECT: REPLENISHING THE GROUNDWATER RESOURCES IN LAHORE AND MULTAN

WWF-Pakistan under National Competitive Bidding (“NCB”) has a requirement for the services of one qualified contractor to provide services and technical input in the installation of Floating Treatment Wetland (FTWs) for improving the water quality [through reduction of pollution load] of wastewater ponds.

Floating treatment wetlands (FTWs) are a promising approach for the remediation of sewage effluent. They are an aesthetically pleasing option which is cost effective at the same time. Their efficiency can be enhanced by the combined use of plants and pollutant-degrading bacteria. Moreover, their installation is also simple as compared to conventional wastewater treatment systems.

The scope of work broadly includes provision of resources for the installation of Floating Treatment Wetlands (FTWs) according to site and situation requirement.

The contractor shall provide the following services in accordance with the manufacturer’s instructions and industry best practice, including all related tools and labour:

Floating Treatment Wetland (FTW):

1. Installation and deployment of FTW at two sites 9wastewater ponds0 in Lahore.
2. Calculate the following parameters (inflow/outflow, retention time and depth of the pond)
3. Provide the best suitable variety of 3,000 macrophyte plants including flowering plants.
4. Provide 10 litres of bacterial culture.
5. Preparation and onsite provision of 20 concrete anchors (1ft x 1ft x 1ft)
6. Procurement of bamboo lengths for securing/bordering/framing of 200 matts.
7. Procurement of telephone wire, wire cutters, pipe cutters, wrenches, shovels, hexa bolts and all other necessary tools required during installation.
8. Transportation of the plants and bacteria culture to the sites.
9. All other expenditures including transportation, food, residence, labour charges, etc, will be arranged by the vendor.
10. Pre and post installation water sampling at the inlet and outlet.
11. The mats will be provided by the WWF-Pakistan.

Interested companies/contractors meeting the following criteria should respond to this EoI:

1. Consultant / team of consultants must have experience in installing bioremediation and Floating Treatment Wetland (FTW) setups in waste water and sewage stabilization ponds.
2. Must be able to work in hot and humid environments.
3. Trained labour with the ability to work and swim in murky water.
4. Should have at least completed 3 – 5 FTW/bioremediation related projects in Pakistan.
5. Be able to demonstrate working ability under the COVID-19 (Corona Virus) circumstances as per the construction works guidelines issued by the government of Pakistan.
6. Should be able to follow all the required Health, Safety and Environmental (HSE) protocols, as specified under the WWF-Pakistan HSE safeguard policy.
7. Should be able to comply with all the national and provincial construction standards and labor protocols.