



REQUEST FOR PROPOSAL (RFP)

FOR

THE CONSTRUCTION OF FLOATING TREATMENT WETLAND AT MARDWAL VILLAGE, UCHHALI COMPLEX, SOON VALLEY, TEHSIL NAUSHERA, DISTRICT KHUSHAB

UNDER PROJECT

INTEGRATED WATER RESOURCE MANAGEMENT IN INDUS BASIN

Opening Date: 25-01-2023

Closing Date: 05-02-2023

WWF-Pakistan has a requirement to acquire the technical services of a reputable qualified contractor for the construction and installation of Floating Treatment Wetland (FTW) for improving the water quality [through reduction of pollution load] of wastewater ponds at Mardwal Village, Tehsil Naushera, District Khushab. Google Coordinates of FTW site location are 32°36'22.85"N, 72° 9'38.06"E.

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 Wetland according to site and situation requirement. Typical drawings of FTW are included in [Annexure A](#) and BOQs for all the related general works has been presented in [Annexure B](#).

The Contractor shall provide the following services in accordance with the manufacturer's instructions and industry best practices, including all related tools and labor:

1. Installation and deployment of FTW at Mardwal Village, Naushera, District Khushab.
2. Approximately 20% of total pond area will be covered by Polyethylene Sheets.
3. Provide the best suitable variety of 5600 macrophyte plants including flowering plants.
4. Procurement and installation of Polyethylene Sheets.
5. Preparation and onsite provision of 08 concrete blocks [1ft x 1ft x 1.5ft] for fixing of G.I. pipes used for supporting floating matts with pond boundary.
6. Procurement of bamboo lengths for securing/bordering/framing of 400 matts.
7. Procurement and installation of safety wires/ cable.
8. Transportation of the plants to the sites.
9. All other expenditures including transportation, food, residence, labor charges, etc., will be arranged by the contractor.
10. Pre and post installation wastewater sampling and testing as per NEQS standards (32 parameters) at the inlet and outlet.



Interested companies/contractors meeting the following criteria should respond and submit the technical & financial proposal in a sealed envelope through courier or by-hand.

Younas Awan
Manager Admin
WWF-Pakistan
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For any queries, please write to wwfadmin@wwf.org.pk.

Requirements:

1. Consultant/ Team of Consultants must have experience in installing bioremediation and Floating Treatment Wetland setups in decentralized wastewater treatment systems & waste stabilization ponds etc.
2. Must be able to work in hot and humid environments.
3. Trained labor with the ability to work in murky water.
4. Should have at least completed 3 - 5 wastewater treatment related projects in Pakistan.
5. Minimum (03 - 05 years) of experience in providing General Civil and Plumbing Works.
6. Should have at least completed 3 - 5 General Civil, Plumbing/ Construction Related Projects.
7. Be able to demonstrate working ability under the COVID-19 circumstances as per the construction works guidelines issued by the Government of Pakistan.
8. Should be able to follow all the required Health, Safety and Environmental (HSE) protocols, as specified under the WWF-Pakistan HSE safeguard policy.
9. Should be able to comply with all the national and provincial construction standards and labor protocols.
10. Any other additional related work will be charged as per market rates.

Proposal Submission Requirement:

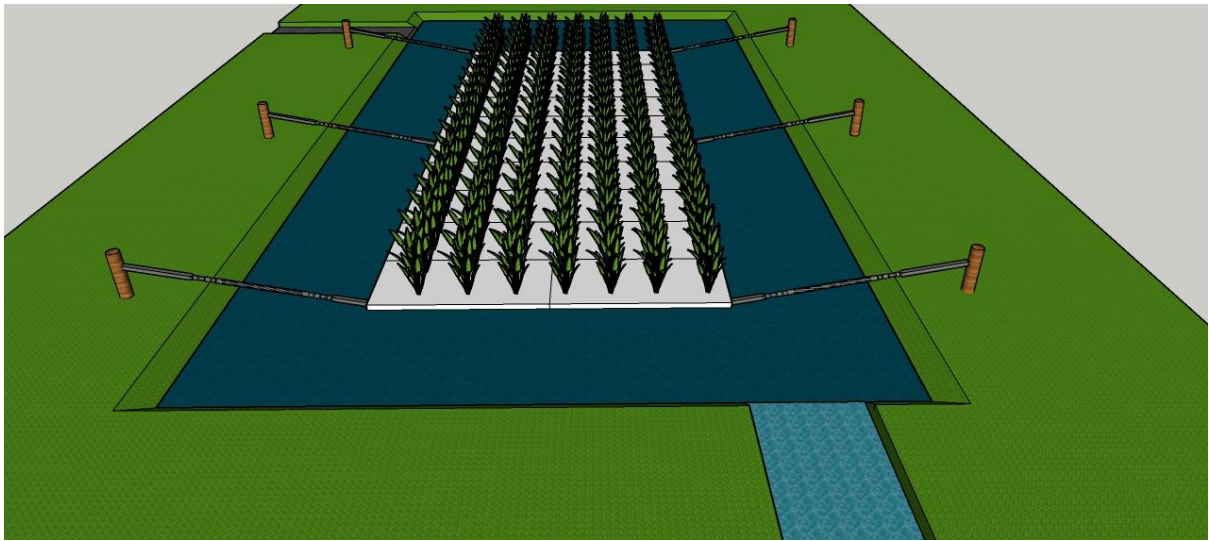
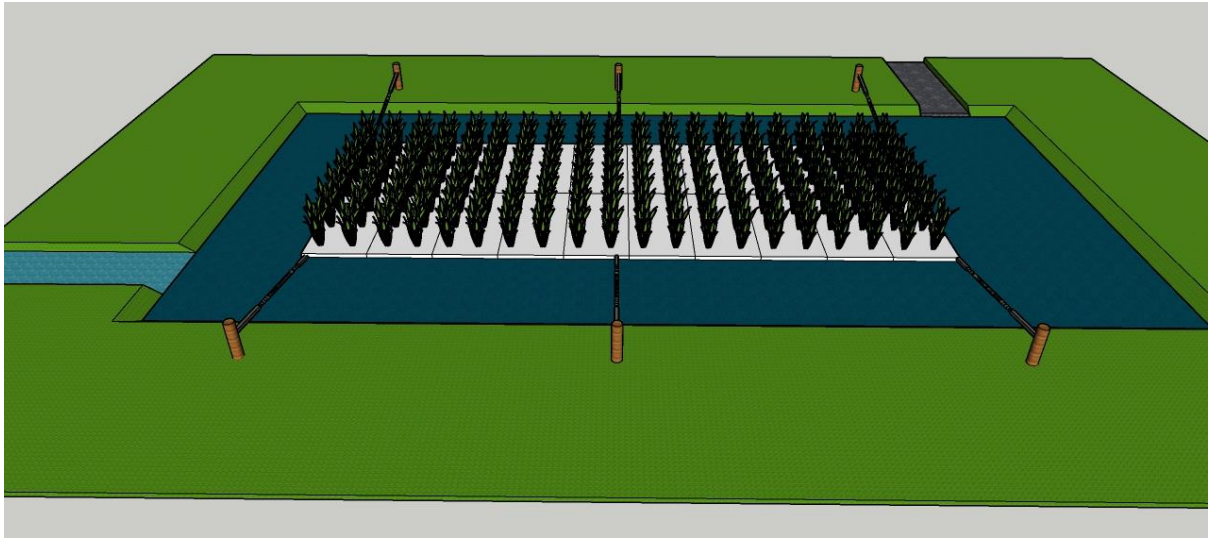
Technical proposal of work scope;

Financial proposal with unit rates, and total cost of work that should be filled in the BOQs table provided below against the given quantities (**Cost must be exclusive of all taxes**);

Following additional documents are required and would be used for **Technical/ Financial Evaluation:**

1. Covering Letter;
2. Copy of Company Registration Certificate;
3. Copy of valid NTN Certificate;
4. Copy of valid Sales Tax Registration Certificate (if applicable);
5. Copies of certificate of professional / technical association (if applicable);
6. Company Profile / Introduction of Organization (including name of Chief Executive, Partners, Professionals, etc.) (if applicable);
7. Financial Soundness Proof (Bank Reference or Bank Statement or Audited Report / Accounts) (if any);
8. Copy of any international / local affiliation (if any);
9. Copy of ISO 9001 / 2000 Certificates / local and international standards (if any);

Annexure A: Typical views of Floating Treatment Wetland





Annexure B: Bill of Quantities (BOQs) of Floating Treatment Wetland

WWF-PAKISTAN						
FTW/ NIKE						
BILL OF QUANTITITES						
Sr.#	Description	Unit	Qty	Rate	Amount	Remarks
1	Polyethylene Sheet (6'x4') with 4" thickness with 2" side borders (Density = 25 Kg/m ³)	Nos	200			
2	Fragmights or Common Reeds Plants	Nos	2800			
3	Bamboo's 2.5" Dia	Rft	400			
4	Safety Wire or Telephone Wire's Bundle 300m length	Nos	2			
5	Concrete Blocks (1'x1'x1.5')	Nos	8			
6	3' G.I pipe with 6 inches supporting angles at Bottom (dia of pipe 2")	Nos	8			
7	Popular PPRC Pipe 32mm	Rft	400			
8	Galvanized Nut, Bolts (6"with 2 washels)	Nos	40			
9	FTW Brick Work Outlet Chamber (2'x2'x2') Construction Work with Complete Finishing	Nos	1			
10	Crush (Site Requirement)	Cft	400			
11	Soil (Site Requirement)	Cft	400			
12	Civil/ Labor Work		Lumpsum			
13	Plants Installation Charges		Lumpsum			
Total Cost						