



**REQUEST FOR PROPOSAL
FOR
INSTALLATION OF TWO (02) WATER FILTRATION PLANT AT FARASH
TOWN ISLAMABAD ON ENGINEERING, PROCUREMENT AND
CONSTRUCTION (EPC) BASIS**

1. Introduction:

WWF-Pakistan under National Competitive Bidding ("NCB") has a requirement for the services of one qualified contractor to provide services for the **Installation of two (02) water filtration plant at Farash Town Islamabad on engineering, procurement and construction (EPC) basis.**

2. Submission of Bids:

Bidder shall submit the Technical and Financial Proposal in Single Sealed Envelope having Clearly mentioned following:

- Title of Procurement **Installation of two (02) water filtration plant at Farash Town Islamabad on engineering, procurement and construction (EPC) basis.**
- Purchaser Address as mention in 2.3

2.1 Only one rate should be quoted for the item and a bidder must avoid giving any alternate quote.

2.2 Quotation must be typed or written in indelible ink and should be signed by an authorized representative. Without a signature on Form of Quotation, the quotation shall not be considered further. All pages of the submitted quotation(s) where entries or amendments have been made, should be signed or initialed by the person signing the quotation.

2.3 A bidder shall submit Price Quotation, on their letterhead, duly signed, stamped by hand on Sealed envelope. The quotation should be addressed and delivered to the following official named official at the address mentioned underneath:

	Name Younis Awan
	Designation Manager Procurement
Purchaser's Address	: World Wide Fund for Nature, Inside Ali Institute of Education, Ferozpur Road Lahore P.O Box 5180
Telephone	:
Email	:

For any queries, please write to wwfadmin@wwf.org.pk and [Syed Shujja Haider Rizvi shrizvi@wwf.org.pk](#)

2.4. The quotation (s) should reach to authorize official, at the address indicated hereinabove, by or before **13th day of October 2023.**

3. Requirements:

The Bidder should have a proper business address and office/shop besides complying with the following eligibility requirements through documentary evidence, to be submitted along with their Quotation:



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- a) The Bidder must have a minimum of 5 years relevant experience in installation of water filtration plants at community level.
- b) The Bidder must have 5 years of experience in construction of Civil structures specifically buildings
- c) The Bidder should have some existing facility in Islamabad and Rawalpindi for pre award site visits and check
- d) Registration with Income Tax Department.
- e) Registration with Sales Tax Department.
- f) Proof of Active Tax Payer of Income & Sales Taxes.
- g) PEC Registration

A bidder shall be selected as per the technical soundness along with valued past experience and financial assessments evaluated responsive quotation(s) provided such bidder meets the qualification/eligibility requirements, referred to above.

4. Additional Documentations:

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

- a) Signed/Stamped copy of this RFP
- b) Technical proposal of as per Technical Specification/TORs at **Annex-A**
- c) Financial proposal with unit rates and total cost of work (Cost must be exclusive of all taxes) as per **Annex-B**
- d) Company Profile
- e) Details of Brand/Leaflets/Broachers (If Any)

5. Validity of Bids:

Bids shall remain valid for a period of at least **60 days** from the date of submission of the quotation, which may be extended based on mutual discussion. A bid valid for a shorter period may be Consider as nonresponsive.

6. Purchaser Right:

WWF-Pakistan reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders. The Purchaser will inform the affected Bidder or bidders of the grounds for the Purchaser's action, if so requested, but the Purchaser shall not be required to justify the grounds.

6.1 Any bidder, if found engaged in corrupt or fraudulent practices (including collusion/polling will be declared ineligible either indefinitely or for a stated period of time.

6.2 WWF-Pakistan also reserves the right to increase, decrease, delete or modify quantity to be delivered before the issuance of "Purchase/Supply Order" to the "Lowest Evaluated Bidder.

Regards,

Name **Hassam Abbasi**
Designation Coordinator
Australia Pakistan Water Security Initiative (APWASI) WWF-Pakistan



Technical Specifications/Terms of Reference

- i) Following are the detailed Technical Specification and TORs:

1. OBJECTIVE OF THE ASSIGNMENT

The major objective is to engage Construction Firm to provide clean drinking water to selected area of Farash Town Islamabad through the establishment of two (02) water filtration plant (Ultrafiltration UF) on EPC basis depending upon the requirement at the site and water quality. The Construction Firm would be responsible to ensure that the selected plant will deliver performance, reliability and operational parameters.

The Construction Firm shall be fully responsible to assure the desired quality of all materials purchased, labor engaged, specifications given and physical works to be carried out under this contract. Any materials, labor, specifications or the physical works found deviating from the agreed standards, during or till one year (01) after the delivery of work, shall be deemed to be the fault of the firm, for which he will be liable to make necessary corrections and repair.

2. SCOPE OF WORK

The scope of services for the Construction Firm shall be (but not limited to) as follows;

The Construction Firm shall install, commission and maintain two (02) filtration plant (including plant room) having a capacity of 2000 liters/hour each in Farash Town, Islamabad.

Detailed Engineering Design

- a. Detail Process Design of Water Filtration Plant as per the water quality report
- b. Detail Structural design of plant room, P&ID, MEP design, Architectural design
- c. Detail Engineer's Estimate and Bill of Quantities (BOQ) / Cost estimation of civil, electrical, mechanical and plumbing works
- d. Catalogue of the installed equipment

Installation & Commissioning

- a. Borehole drilling upto depth confirming or ensuring sustainable water source
- b. Identification of water characteristics through testing of water sample
- c. Civil works including construction of plant room as per the detailed engineering design provided by the firm. Civil works must include construction of grey structure and exterior and interior finishing
- d. Branding of funding agency shall be included in Civil Works
- e. Procurement and installation of state-of-the-art filtration plant (including electrical, mechanical and plumbing works) as per the detailed design for meeting WHO standards of drinking water based on the water quality from the source
- f. Equipment with a warranty of upto one (01) years is required
- g. Complete commissioning of filtration plants



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Operation & Maintenance

The Construction Firm shall;

- Provide operation & maintenance (O&M) for one (01) year starting from the date of commissioning of each water filtration plant (*including membrane cleaning etc*). O&M visit per month is required, moreover, need based O&M visit shall also be included.
- Assist the community for resolving any technical issues during operation
- Train local plant operator for the plant operation and maintenance
- Be responsible for the satisfactory performance of filtration plants for continued supply of clean water as per WHO standards at all times, during O&M period
- Develop monthly log book for proper operations

Note: Land allocation is complete responsibility of WWF Pakistan and shall be provided to the firm on timely basis for installation of water filtration plant.

3. EQUIPMENT SPECIFICATIONS

The equipment specification list is provided below;

1. Electrical, Mechanical and Plumbing Equipment	
Components	Material Specifications
Feed Water pump	CNP/ Grundfoss Q= 4000 LPH, H= 30 m
Multi-media Sand Filter Vessel with sand	Pentair 16" x 65", Multi grade sand, Digital.
Activated Carbon filter vessel with media	Pentair 16" x 65", Granular Activated Carbon, Digital.
Cartridge Filters	Taiwan size:4"x20", 5 micron
UF Membrane	Hydronautics Model: Hydra Cap 40 A
Ozonator	China 3 GPH
UV system	Philips 33"
HMI + PLC/Electrical Panel	Philips MS with Powder coating, MCB 32A:1, Magnetic



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	Contactor 18A:1, Overloads (electronics):1, Connection Strip 12 points:1, LED:2, Emergency Switch:1, PLC: Mitsubishi, HMI: Weintek 7"
Backwash/CIP System	CNP/ Grundfoss Refurb CIP port and 80-liter Tank
Skid Structure	SS201/WCSP
Flow Meter	Zyst/ SHLLJ/ LZT Taiwan 10 GPM
Pressure Gauge	Truteller 0 ~ 250 Psi
Pressure Pipes and fitting	Hydro/Dadex All pipes and fittings will be of uPVC/PPR
Solenoid valve	Unidy 1", Brass
Header	Material: Stainless Steel/ Faisal Size: 2"x 7.5' Taps: 5 (each)
Chlorine Dozing Station	Etatron 5 LPH, 7 Bar, 80-liter tank
Water Tank	Master (Good Quality, Food Grade, transparent) 500 Gallon (2 each plant)
Totalizer	China Size: 3/4" Material: Brass
Filter PPF	Taiwan/PK 4 filter per month (each)
Chlorine	PK 5 liter per month (each)
TDS Meter	Create (Online)
Complete wiring	PK



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Sub meter, service wires and other accessories	PK
Exhaust Fan + Fitting	PK
2. Civil Structure / Plant Room	
Complete Room Facility	Dimensions 14*12*12 ft (L*W*H) (Including complete dismantling, compaction, construction/finishing, electrical and plumbing connections, exhaust windows, doors, complete finishing and weather shield painting, glaze tiles on walls and mat tiles at the surface, complete job)
Outside water collection facility	Renovation of wall 5*7 ft including tiles, step, brick masonry columns 02 and providing taper of fiber glass (6*4 ft) complete job
Counter below headers for bottle placement and collection of water	Brick masonry with proper tile finishing (dimensions as per site, complete job)
Ramp for handicap (design provided below)	Concrete ramp with tuff tiles on surface
Grill on Ramp (Two sides)	SS Grill with proper fittings
Grill on drain	Iron grill on exit water drain
Side grill / fence around filtration unit	Iron grill at front side of plant facility for filtration plant protection (complete job)
Platform / Stand for placement of water tanks	Brick masonry with proper tile finishing (dimensions as per site, complete job)
Tuff Tile flooring	Tuff Tiles flooring at the premises of plant
Grass and plantation	Grass and plantation for beautification
3. Drilling of Bore	
Mobilization of Drilling Rig and personnel; including site camp and demobilization	complete job
Supply of 7"- 8" GI casing in Overburden	GI Casing
Drilling of about 6" to 8" dia Bore Hole	As mentioned,
Supply of 4" dia Delux type UPVC Casing pipe of standered wall thickness	UPVC Casing pipe of standered wall thickness
Supply of 4" dia Delux type UPVC filter pipe of standered wall thickness (As per design of the borehole)	4" dia Delux type UPVC filter pipe of standered wall



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Submersible motor	2HP China
Suctional pipe 1.5" with rope and other accessories	complete job
Supply and installation of well cap with lock and other accessories	complete job
Yield Test	complete job

Note: The equipment to be installed shall be finalized after water quality test from water source.
No relaxation on provided material specification is given (unless better quality is provided).
The required Civil structure component are mandatory and can changed/modified based upon site specific requirement

4. DELIVERABLES

The following deliverables shown in the table below shall be submitted by Construction Firm for completion of Project. The timelines of the project deliverables are stringent and non-negotiable.

Sr. No.	Deliverable
1.	Detailed Engineering Design Report (conceptual/process designs and detailed designs)
2.	Complete set of concept drawings (layout, plan & cross-section, structural, architectural, P&ID, electrical, mechanical and plumbing drawings)
3.	Complete catalogue of all equipment.
3.	Complete cost estimation / BOQs
4.	Site Investigation Reports regarding borehole, water testing
5.	01 completely commissioned filtration plant and the Project Completion Report
6.	Log Book

5. PERIOD OF CONTRACT

The duration of project & report submission is four (04) months.

Notes:

- i- Delivery, Transportation and Installation at site shall be responsibility of the supplier.
- ii- The firms will ensure that the equipment being supplied is brand new not refurbished
- iii- Bidder will be responsible for fault free operations Purchaser Inspection committee will carry out the inspection of the items supplied. The decision of inspecting authority regarding approval or rejection of the items will be final and binding to all concerned.

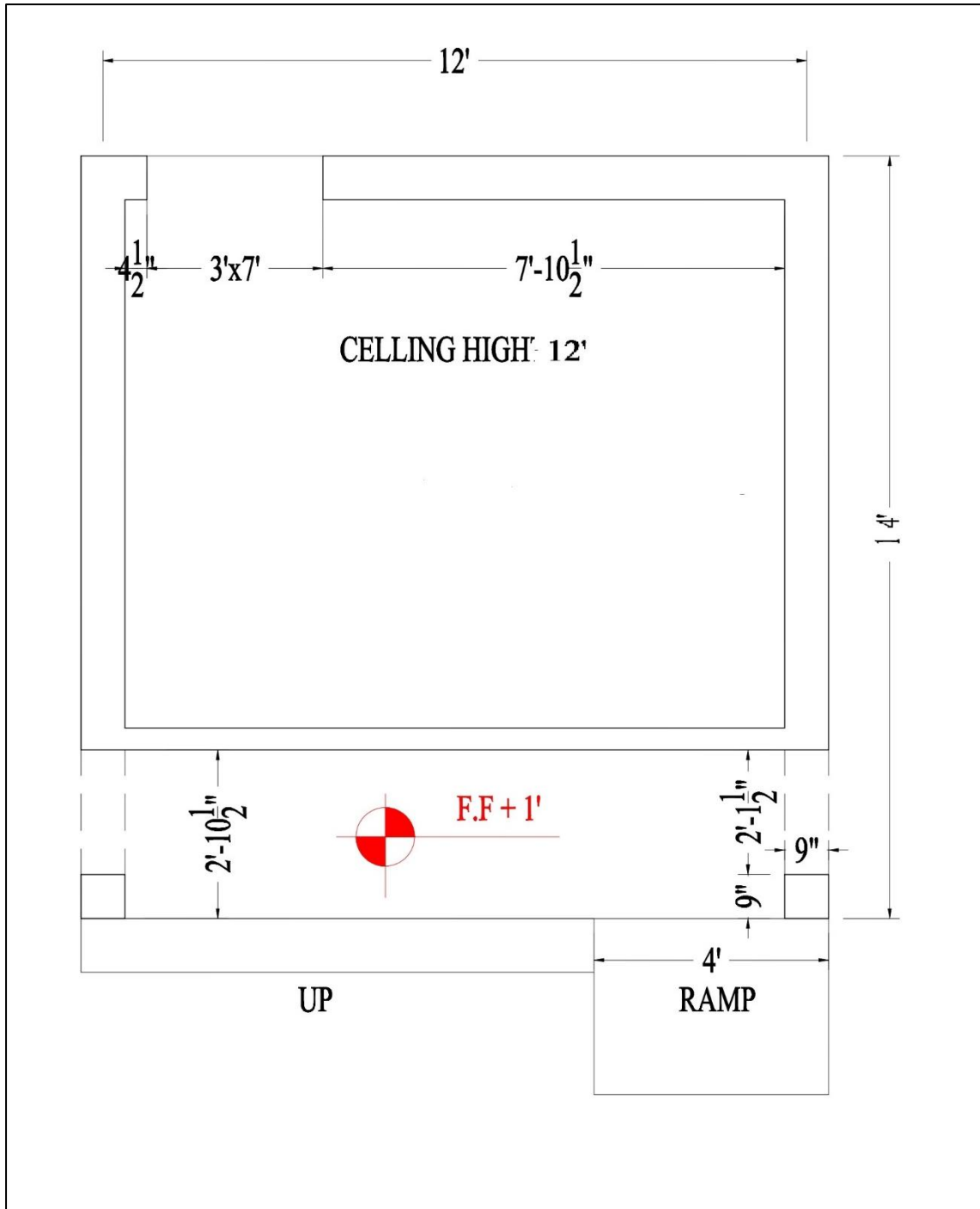


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- iv- Performance guarantee upto 10% in the form of Pay Order/ DD of the total cost of the project shall be submitted (in case of award of contract) and it will be released to the contractor upon completion of O&M Period.
- v- Retention amount will be paid after completion of O&M Period (5%) (After award of contract)
- vi- The **O&M Period** of the Activity shall be one (01) year after commissioning against which the Supplier/Contractor shall provide FOC Services and Rectification if any and when required.
- vii- **Delivery/Implementation Timelines** for this project is Approx four (04) months from Signing of agreement

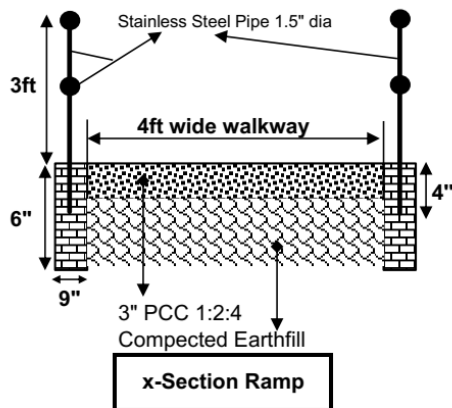
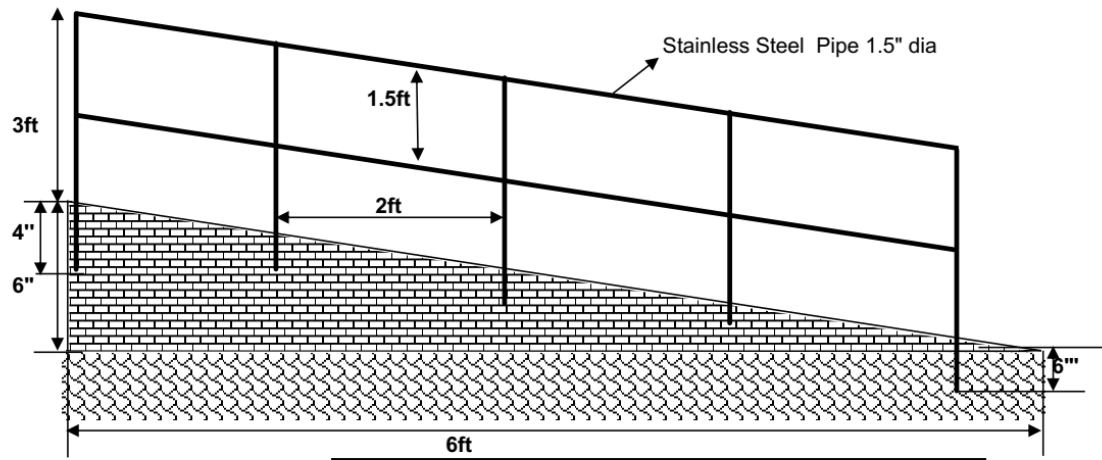


6. Room Drawing and Ramp Design





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Annex-B

Format of Financial Proposal

i) Financial Proposal for required Goods/Services as per following details:

A-Electrical, Mechanical and Plumbing Equipment					
Components	Material Specifications	Unit	Quantity	Rate	Total
Feed Water pump	CNP/ Grundfoss Q= 4000 LPH, H= 30 m	Nos .	02		
Multi-media Sand Filter Vessel with sand	Pentair 16" x 65", Multi grade sand, Digital.	Nos .	02		
Activated Carbon filter vessel with media	Pentair 16" x 65", Granular Activated Carbon, Digital.	Nos .	02		
Cartridge Filters	Taiwan size:4"x20", 5 micron	Nos .	04		
UF Membrane	Hydronautics Model: Hydra Cap 40 A	Nos .	02		
Ozonator	China 3 GPH	Nos .	02		
UV system	Philips 33"	Nos .	02		
HMI + PLC/Electrical Panel	Philips MS with Powder coating, MCB 32A:1, Magnetic Contactor 18A:1, Overloads	Nos .	02		



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	(electronics):1, Connection Strip 12 points:1, LED:2, Emergency Switch:1, PLC: Mitsubishi, HMI: Weintek 7"				
Backwash/CIP System	CNP/ Grundfoss Refurb CIP port and 80-liter Tank	Nos .	02		
Skid Structure	SS201/WCSP	Nos .	02		
Flow Meter	Zyst/ SHLLJ/ LZT Taiwan 10 GPM	Nos .	02		
Pressure Gauge	Truteller 0 ~ 250 Psi	Nos .	08		
Pressure Pipes and fitting	Hydro/Dadex All pipes and fittings will be of uPVC/PPR	Nos .	02		
Solenoid valve	Unidy 1", Brass	Nos .	04		
Header	Material: Stainless Steel/ Faisal Size: 2"x 25'	Nos .	10		
Chlorine Dozing Station	Etatron 5 LPH, 7 Bar, 80-liter tank	Nos .	02		
Water Tank	Master (Good Quality, Food Grade, transparent) 500 Gallon (2 each plant)	Nos .	04		
Totalizer	China	Nos .	02		



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	Size: 3/4" Material: Brass				
Filter PPF	Taiwan/PK 4 filter per month (each)	Nos	96		
Chlorine	PK 5 liter per month (each)	Liter s	120		
TDS Meter	Create (Online)	Nos	02		
Complete wiring	PK	Job	02		
Sub meter, service wires and other accessories	PK	Job	02		
Exhaust Fan + Fitting	PK	Job	02		
PPR transport pipe to outside header	PPR 1" dia	RFT	200		
B-Civil Structure / Plant Room					
Complete Room Facility	Dimensions 18*12*12 ft (L*W*H) (Including complete dismantling, compaction, construction/finishing, electrical and plumbing connections, exhaust windows, doors, complete finishing and weather shield painting, glaze tiles on walls and mat tiles at the surface, complete job)	Job	02		
Outside water collection facility	Renovation of wall 5*7 ft including tiles, step, brick masonry columns 02 and providing taper of fiber glass (6*4 ft) complete job	Job	01		



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Counter below headers for bottle placement and collection of water	Brick masonry with proper tile finishing, drain (dimensions as per site, complete job)	Job	03		
Ramp for handicap (design provided below)	Concrete ramp with tuff tiles on surface	Job	03		
Grill on Ramp (Two sides)	Aluminum/SS Grill with proper fittings	Job	03		
Grill on drain	Iron grill on exit water drain	Job	03		
Side grill / fence around filtration unit	Iron grill (16 gauge, 1" pipe with locks and gate) at front side of plant facility for filtration plant protection (complete job)	Job	02		
Platform / Stand for placement of water tanks	Brick masonry with proper tile finishing (dimensions as per site, complete job)	Job	02		
Tuff Tile flooring	Tuff Tiles flooring at the premises of plant	Job	03		
Grass and plantation	Grass and plantation for beautification	Job	03		
O&M / Services	O&M visit per month is required, moreover, need based O&M visit shall also be included by competent technician	Job	02		
C-Drilling of Bore					
Mobilization of Drilling Rig and personnel; including site camp and demobilization	complete job	Job	02		
Supply of 7"- 8" GI casing in Overburden	GI Casing	RFT	40		



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Drilling of about 6" to 8" dia Bore Hole	As mentioned	RFT	500		
Supply of 4" dia Delux type UPVC Casing pipe of standered wall thickness	UPVC Casing pipe of standered wall thickness	RFT	300		
Supply of 4" dia Delux type UPVC filter pipe of standered wall thickness (As per design of the borehole)	4" dia Delux type UPVC filter pipe of standered wall	RFT	200		
Submersible motor	2HP China	Nos.	02		
Suctional pipe 1.5" with rope and other accessories	complete job	RFT	500		
Supply and installation of well cap with lock and other accessories	complete job	Job	02		
Yield Test	complete job	Job	02		
Total Cost without Tax					

Payment Terms:

Following Payment, the terms shall be followed:

Advance Payment Upon Signing of Contract	30 %
Upon Completion of civil structure of 02 filtration plants	25 %
Upon Completion of plant shifting and installation	25 %
Upon completion of commissioning and optimization	15%
Retention amount will be paid after completion of O&M Period	5 %

- The Contracts request(s) for payment shall be made to the WWF-Pakistan in writing, accompanied by an invoice, and delivery challans/Inspection Reports describing, as appropriate, the Equipment delivered upon the fulfillment of other obligations stipulated in the Contract.
- The currency of payment is Pak. Rupees.
- All Taxes shall be Deducted as per the Laws of Government of Pakistan



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- d) If any Exemption on Taxes. Exemption Letter shall be provided along with the Financial Proposal.