EXPRESSION OF INTEREST (EoI) / Request for Proposal (RfP)

FOR

Rainwater and Greywater management services

Under

COMMUNITY WATER STEWARDSHIP PROJECT: REPLENISHING THE GROUNDWATER RESOURCES FOR LAHORE

World Wide Fund for Nature (WWF-Pakistan) under National Competitive Bidding (“NCB”) has a requirement for the services of one qualified contractor to provide end-to-end rainwater harvesting system and greywater management services in the mission for offsetting and reduction in use of groundwater to implement water stewardship by water replenishment techniques.

The Scope of work broadly include provision of resources for carrying out all General Civil Works such as excavation & backfilling works, masonry & Plastering, PCC & RCC foundation bedding, design of plumbing and miscellaneous structural works 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:

**Ablution Water Reuse Tank**

1. Ablution water reuse system will be installed in three (3) Mosques.
2. Procurement of medium Class (4” Dia.) of Turkplast pipe or equivalent to connect Ablution water drain outlet with Storage Tank.
3. Excavation and laying pipe of (tentative 70 ft.) for Re-Use Ablution Water conveyance System including inlet and outlet.
4. Excavation, back filling and construction of brickwork Storage Tank of (10 m$^3$, Dimensions may vary site to site) with filter box chamber (L:2.6”xW:8” and depth is 2.5” from inlet.) and Brick Masonry with Cement Plaster and chipping and PCC bed and RCC slab with shuttering as shown in Construction Drawings in fig.1 and schematic diagram in fig.2
5. Wall thickness is 13 inch from foundation up to two (3 ft.) and remaining will be 9” up to 7 ft. height.
6. Procuring and lying of electricity supply for electric pump to complete it with all aspects.
7. Rate as per actual for dismantling of concrete if required.

**Rainwater harvesting barrel system**

1. Rainwater harvesting barrel system will be installed in ten (10) households.
2. Procurement of medium Class (4” Dia.) of Turkplast or equivalent reputed company to connect drainpipes with relevant fittings
3. Total estimated length is 70 ft and payment will be according to actual length.
4. Plumbing and Installation of Pipes.
5. Procurement and Installation of Storage Tank (500 Gallons) on each site.
6. Construction of Storage Tank Foundation with Brick masonry and Plaster (4’x4’x1’)
7. Installation of Sieve Mesh, cleaning elbow and first flush provision on drain pipes.
8. Procurement of Miscellaneous items (if required) as per actual rate. Schematic diagram for rainwater harvesting system is given in fig.3
9. Rate as per actual for dismantling of concrete if required.

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

1. Minimum (03 – 05 years) of experience in providing General Civil Works especially underground structures & Civil Maintenance services at different locations in Lahore.
2. Should have at least completed 3 - 5 General Civil/ Construction Related Projects in vicinity of Lahore.
3. 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.
4. Should be able to follow all the required Health, Safety and Environmental (HSE) protocols, as specified under the WWF-Pakistan HSE safeguard policy.
5. Should be able to comply with all the national and provincial construction standards and labor protocols
Figure 1 Construction drawings for ablution water storage tank

13” wall from foundation upto 3 ft. height
Figure 2. Ablution water schematic diagram

Figure 3. Rainwater harvesting through barrel system