Feasibility of Multipurpose Wooden Elevated Platforms

Project: Sustainable Mangroves Management and Community Development in the Indus Delta II

Location: Thatta Keti Bunder & Kharo Chan
Type of contract: Construction Company /Consulting Firm/Consultant
Starting Date: 22nd Aug-2022
Expected duration of Assignment: 1-Week

1. Brief Introduction of WWF-Pakistan:
WWF Pakistan founded in 1970, is the largest independent conservation NGO in Pakistan, with over 20 offices nationwide. WWF-Pakistan’s mission is to conserve the country’s vast biodiversity and natural resources. To this end, it works in the areas of food, climate & energy, freshwater, wildlife, forests, and oceans. Since its inception, WWF-Pakistan has implemented more than 200 projects and programs. WWF-Pakistan works closely with local and national partners, government, private partners, research, and communities. WWF-Pakistan has had extensive experience in working with international donors since January 2019.

2. Background of Project & Assignment:
The effects of climate change are clearly visible in the coastal areas of the Indus Delta. Pakistan is ranked 5th most vulnerable country on the global climate change vulnerability index. Cyclones and high tidal waves cause loss of life and property in the project area. Based on the different scenarios of Disasters, WWF-Pakistan is already striving at its level best in proposed districts Thatta & Sujawal for a long to make them resilient, save biodiversity, increase mangroves, protection of wildlife to minimize climate change impacts on the communities.

Currently, WWF-Pakistan has been implementing the BMZ-Bengo project “Sustainable Mangroves Management and Community Development in the Indus Delta. The Project is aiming at to enhance the capacity of the most vulnerable communities for their resilience to climate change and disasters. Focusing the project goal, key interventions like the capacity building of the most vulnerable communities, placing early warning systems, construction of multipurpose wooden raised platforms, and development of community-managed coastal disaster response units and other relevant interventions are planned to execute. WWF-Pakistan is looking forward to hiring the services of a professional architect (consultant), individual or a firm, for the feasibility of wooden elevated multipurpose platforms in local communities of Keti Bunder and Kharo Chan of districts Thatta having capacity of 50 to 60 people which will be utilized by communities during emergencies /disasters flood, cyclones, and high tide.

It should be noted that the platform could be 40 ft x 40 ft according to the need with sustainable side fencing in a way to provide complete protection during the high-speed wind blows along with the rainwater harvesting system and foldable top cover for rain protection. Materials and construction methods should be resistant to flood and wind damage, driving rain, corrosion, moisture, and decay

3. Objective of the Assignment:
- To develop drawing of wooden elevated platform for flood, high tide, cyclone and protection from other natural disasters for the communities of Indus delta.
- Develop feasibility of structure in targeted area
- Develop bill of quantity of material recommended to be used in elevated platforms

4. Scope of the Assignment:
• Develop complete drawing with cross section of the raised platform size 40 ft x 40 ft, 6 ft height with side fencing, rain water harvesting system of 300 gallons & foldable top roof which can sustain in mud flat, high tide and high wind in creek/sea environment at Indus delta.
• Develop structural design of scheme
• Site visit and develop complete BoQ (Bill of Quantity) for wooden raised platform and recommend water resistant material /wood to be used.
• Recommend water resistant wood material according to the area and sustainability in sea water at least for ten years
• Recommend materials that are suitable for the expected wind forces.
• Recommended material should protect structure from corrosion, termite and moisture absorption at coastal area.
• Recommend and Incorporate termite control method into design.
• Conduct meeting with communities
• Develop complete feasibility report with pictures
• Develop implementation plan

5. Specific tasks for Contactor/Consulting Firm:
• The consultant will share the complete design with cross section and layout plan of wooden elevated platforms with WWF-Pakistan.
• Consultant will coordinate with communities on their existing practices for construction of wooden structure and incorporate their suggestions and feedback in design.
• Submit a proper design with BoQs to WWF Pakistan
• Recommend very specific wood for the construction of platform.

6. Approach & Methodology:
• Conduct field visit of targeted area for feasibility and design
• Conduct site analysis for the development of design and BOQs
• Conduct meeting with local communities for their existing practices

7. Main deliverable of the assignment:
• Develop design drawing of structure and cross-sectional plans of wooden elevated platform
• Develop Bill of Quantity (BoQ) of wooden elevated platform with recommendation of material /wood
• Complete report with pictures and drawings
• Completion of assignment as per agreed time

8. Tasks for WWF-Pakistan:
• Share detail of sites/villages with the consultant
• Facilitate in conduction of filed/site visit
• Provide information/data required to the consultant regarding wooden elevated platforms
• Facilitate consultant in conducting meetings with communities

9. Eligibility Criteria of the Contactor:
The response of the consultant against eligibility and experience are mentioned as under:
• Having a valid NTN
• Licensed by the Pakistan Engineering Council
• At least 5 to 7 years of experience in the field of architecture/construction
• Active Taxpayer
• Experience of working on a similar type of assignment
• Good knowledge of coastal areas specially Thatta

10. Guideline for submission of proposal/expression of interest:
Interested candidates can apply by submitting an electronic and a hard copy of the proposal to Manager Operations, WWF-Pakistan, 35-D PECHS Block-6, Main Shahrah e Faisal, Karachi.
• Introduction of the consultant business
• Understanding of the local context of district Thatta
• Workplan of assignment
• Budget of the assignment

11. Period of assignment:
• Start Date: August 22, 2022
• End Date: August 26, 2022

12. Conditions:
• WWF-Pakistan reserves the right to accept any proposal or reject all proposals
• Only shortlisted candidates will be contacted for further consideration.