Terms of reference (TOR)

Consultancy Services for support regarding Renewable Energy & Energy Efficiency in the project “Decarbonizing the Textile Manufacturing Sector of Pakistan”

Introduction

Textile industries in Pakistan rarely comply with environmental regulations unless linked to international supply chains, where compliance is mandated by international market requirements and regulations. Locally, weak enforcement of regulations and lack of incentives to comply with environmental laws, has led to widespread non-compliance. There is not only a lack of private-sector capital available for investment in energy efficient technologies, but a general lack of awareness of the financial benefits of shifting to green production practices which leads to an unwillingness on the part of textile SMEs to change production patterns.

The proposed NAMA Support Project aims to promote investments in renewable energy and green technologies to mitigate GHG emissions by providing access to finance, establishing a local market for resource efficient technologies and through advocacy and policy interventions.

The following are the key outcomes for the proposed NSP:

1. Improved access to finance for Energy Efficient and Renewable Energy technologies
2. Enhanced GHG mitigation in the textile sector of Pakistan
3. Enable regulatory environment for enhanced carbon-neutral development in the textile sector
4. Developed market for EE and RE technologies

The project will support better enforcement of environmental regulation, to achieve reduction in GHG emissions in the textile sector. Through the adoption of renewable energy and energy efficient technology, Pakistan’s textiles sector could reduce energy consumption by 22 percent, and save over $60 million in costs. The proposed NSP aims for an overall GHG reduction of 4.3 million tons. Moreover, at the end of the NSP, a strong domestic market for energy and resource efficient technologies will be well established making it easier for SMEs to acquire technologies that can help save energy and reduce their GHG emissions.
**Objectives**

The objective of this consultancy is to advise Project Manager in assessing the potential of green technologies & suitability for Textile Sector. The provision of advice, support and technical guidance is a key part of the consultancy services.

**Scope of Consultancy**

The Consultant will be responsible for the delivery of the tasks assigned by WWF-Pakistan. The consultant will be bound for executing the duties as mentioned in the TORs.

1. Visit key stakeholder from the textile sector to identify their needs and assess their readiness for adopting green technologies
2. Develop the energy consumption profile of the local textile manufacturing sector of Pakistan
3. Compilation of the data of GHG emissions of the textile sector & prepare the visualization of the data to facilitate decision making
4. Work closely with the project team to finalize suitable technical implementation partners related to energy efficiency & resource efficiency
5. Advise suitable bankable green technologies having GHG mitigation potential for the Textile Sector
6. Advice on the renewable energy (PV, Solar Thermal & Biomass) potential specific to the textile sector of Pakistan through a need assessment study
7. Provide regular input to the project team for the development of project risk matrix
8. Provide input to the draft of detailed project proposal and coordinate with the Program Development Team (including but not limited to log frames, work plans, and budgets) with WWF-Pakistan’s various teams, global WWF Network, and other partners and stakeholders
9. Any other responsibility assigned by the Project Director / Manager

**REQUIREMENTS**

- The consultant should have a minimum Masters in Energy, Environmental, Renewable energy or related discipline from a reputable international or Pakistani institution.
- At least 7-8 years of experience in Energy & Environmental Engineering
- Consultants should have experience of working in solar/renewable energy project work & conducting energy/environmental audits
- Professional exposure of working in Pakistan