Terms of reference (TOR)

Consultancy Services for Technical Support 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 (NSP) 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 assist WWF-Pakistan in sectoral assessment, grading of technologies, formulation of decision support tools for financial institutes & devising Monitoring and verification protocols. 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.

The Project Advisor (Technical) will work closely with the project team and financial implementation partner in order to assess the feasibility to evaluate mitigation potential and conduct country wide market assessments for green technologies pertinent to textile sector, with a focus on creating more accessible and affordable clean energy financing solutions for the textile SMEs in Pakistan. The following are the key responsibilities;

1. Identify and map the consumption of key resources (chemical, water, steam etc. in the textile sector of Pakistan
2. Calculate the potential of renewable energy generation in the textile value chain of Pakistan (Spinning, Knitting, Weaving, Dyeing, Processing, Garmenting etc.)
3. Carry out the feasibility assessment of the various green technologies contributing in Energy Efficiency, Resource Efficiency & Renewable Energy in the textile sector
4. Collate the data related to the suppliers of green interventions
5. Formulate minimum performance standards for green technologies related to Energy Efficiency, Resource Efficiency & Renewable energy
6. 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

Requirements

- The consultant should have a PhD energy and/or environmental engineering or related discipline with 8-10 years’ experience or Masters in energy and/or environmental engineering or related discipline with a 10-15 years’ experience from a reputable international or Pakistani institution. Certificate or degree in alternative energy will be given preference.
- Experience in industrial resource efficiency and renewable energy projects or other relevant projects in the textile sector
- Preference will be given to candidates having experience with solar/renewable project
- Professional exposure of working in Pakistan
- Experience working in a multicultural environment preferred