Terms of References (ToRs) for Consultancy Services for Feasibility Assessment and Demonstration of Solar Thermal Applications in Textile and Leather SMEs in Pakistan

1. GENERAL

This document contains Terms of Reference (TOR) for hiring services to carry out assignment on develop technical viability plan for solar water heater for installation in leather and textile sector of Pakistan (hereinafter called the consultant), to be engaged by WWF-Pakistan (hereinafter called the Employer).

2. OBJECTIVES OF THE PROJECT

WWF-Pakistan, in collaboration with International Labour Organization (ILO), is implementing ‘International Labour and Environmental Standards Application in Pakistan’s SMEs (ILES)’ in the textile and leather sector of Pakistan. This project is funded by European Union.

The project’s overall objective is to support the economic integration of Pakistan into the global and regional economy by increasing exports and competitiveness through incorporating cleaner production in Leather and Textile processes and improved compliance with labour and environmental standards.

The programme’s specific objective is to support the enforcement, implementation and compliance with the International labour and environmental standards (ILES) by public and private sectors in Pakistan.

3. OBJECTIVES AND SCOPE OF THE SERVICE

The objective is to hire services of engineering consultant to develop technical viability plan for solar thermal water heater installation in leather and textile sector of Pakistan to analyze the feasibility of the solar heating system in project domains.

The scope of the consultancy shall include the following:

• Baseline assessment of Textile and Leather SMEs for the potential application of solar thermal in the production processes and / or utility processes
• Comparative analysis of solar thermal application with existing practices and associated environmental footprint
• Design and Develop the feasible solar thermal solution (five cubic meter per day for a small tannery – extendable) for leather SMEs and demonstrate suitability of results through actual implementation under local conditions
• Showcase the actual results and associated environmental benefits
• Develop guidance manual for the optimal operation of Solar Thermal application under local condition in Sindh and Punjab.

4. REQUIREMENTS

The consultants must have the following qualifications and experience

• B.Sc. or M.Sc. Degree in electrical/mechanical/renewable energy engineering/technology.
• Proven track record, relevant technical skills, knowledge and 5 years plus extensive work experience in the field of renewable energy.
• Experience in providing consultancy services with donor-funded project regarding renewable energy and solar thermal applications.
• Experience and willingness to travel to industrial/remote areas in Pakistan
• Excellent oral presentation and report writing skills.

5. TIME FRAME
   □ 4 months