

TERMS OF REFERENCE (TOR)

for

“A comprehensive Greenhouse Gas (GHG) Accounting and Analysis of Pakistan’s Leather Sector”

1. Background:

WWF Pakistan implementing the EU funded project namely “International Labor & Environmental Standards (ILES) Application in Pakistan's SMEs” aims at enhancing capacities of the textile and leather sector SMEs to adopt (SEMPs) Smart Environmental Management Practices to reduce overall energy and water footprint of textile and leather manufacturing, in addition to addressing other relevant environmental issues such as air and noise pollution, and solid waste management. In order to control GHG emissions through actionable quality data and boost climate change mitigation capabilities, under the project ILES, WWF Pakistan intends to delineate “A comprehensive Greenhouse Gas (GHG) Accounting and Analysis of Pakistan’s Leather Sector” on following objective and scope.

2. Objective:

Terms of references (TORs) aims to provide complete, accurate and consistent GHG accounting and analysis associated with Pakistan’s leather sector. Hotspots will be identified in Pakistan and across the value chain along with short term, medium term and long term recommendations necessary to streamline with global market requirement of Net Zero Carbon Footprint.

3. 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) Perform literature review on leather production processes, Pakistan’s leather industry localized processes, segment wise emissions (GHG) calculations for prominent leather clusters in Pakistan.
- 2) Conduct comprehensive assessments and GHG accounting by different production segments as indicated in the following table

Supply Chain Segment	Steps	Process
Sourcing of Raw Hides and Skin	Slaughter House	Slaughtering
	Transfer and Raw Hide Storage/Skin	Transportation of material

Raw to Wet Blue	(Beam House)	Sorting and trimming Curing and storage Soaking Green fleshing Unhairing & liming Lime fleshing Lime splitting and trimming De-liming and bating De-greasing of sheepskins
	Tanyard	pickling, tanning, sammying, chrome splitting
Finished Leather	Post Tanning and Finishing	shaving, re-tanning, dyeing, fat liquoring) Drying Finishing (mechanical finishing, coating)
Value Addition	Cut to Pack (Garments, Gloves, Bags, Sports Gear)	Assembly processes Packaging

- 3) Classification of leather facilities in each segment i.e. small, medium, large.
- 4) Execute all necessary steps required to collect GHG emissions data including mapping and coordination with stakeholders, site surveys, engagement with industries, etc.
- 5) Conduct GHG accounting and analysis in terms of CO₂ equivalent (expressed as tonnesCO₂e/kg hide of leather production)
- 6) Identify key GHG emission hotspots with respect to leather tanning in Pakistan represented by cluster mapping.
- 7) Cluster wise comparison of GHG emissions of processes with respect to the classification.
- 8) Propose measures for supply chain segments to mitigation GHG emissions in leather sector.
- 9) Propose action plan for government to institutionalize the mitigation actions and their alignment with NDCs, MEAs and SDGs.

4. Deliverables:

- 1) Inception report indicating the detailed procedures and work plan for the contract (at the time of kick-off/preliminary meeting).

- 2) A comprehensive report on GHG emissions accounting and analysis for leather Sector of Pakistan along with detailed calculations and summary dashboard (Two Hard Copies and One Soft Copy in for of CD/DVD).
- 3) 02 consultative sessions with Project stakeholders to present the findings of study.
- 4) 02 workshops to present the major findings of study to all project stakeholders.

5. Qualification/Requirements:

- 1) The consultant should have a degree in Leather/Textile/Environmental Engineering/Sciences Additionally, at least 5 reference projects implemented in the last 5 years related to GHG emissions calculation preferably in the leather/textile industry.
- 2) The consultant should have extensive knowledge of GHG emissions, carbon footprint, carbon accounting and LCA.
- 3) The consultant should have at least 10 years of work experience on various sustainability research and development sector projects.

6. GUIDELINE FOR SUBMISSION OF PROPOSAL/EXPRESSION OF INTEREST:

Interested consultants should submit the following documentation to Muzzammil Ahmed (mahmed@wwf.org.pk), Maham Zahara (mzahara@wwf.org.pk)

Brief introduction of consultant (attach detailed CV with references)

- Application form available at WWF website
- Understanding of the context
- Methodology
- Design Portfolio
- Work plan
- The consultant will submit the cost of assignment in lump sum including all applicable taxes of the Government of Pakistan.

7. SELECTION CRITERIA:

Applicant's proposal shall be evaluated based on the Quality and Cost Based Selection (QCBS) method. Under QCBS both technical and financial proposals shall be evaluated as per following criteria against a maximum score of 100 points;

- Technical Proposal 70%
- Financial Proposal 30%

The following criteria shall be used as a basis for evaluation of technical proposals:

- Qualifications (maximum 30 points)
- Experience relevant to the assignment (maximum 30 points)
- Adequacy of the proposed methodology and work plan (maximum 20 points)
- Skills & Competencies for the assignment (maximum 10 points)

- Prior experience with WWF-Pakistan (maximum 10 points)