



Leather for Health, Wealth and Luxury!

Africa Leather and Leather Products Institute (ALLPI)

Term of Reference (ToR)

Online System Software Development for Hides and Skins Traceability and Certification of Eco-friendly leather products

1. Background and Context

Africa Leather and Leather Products Institute (ALLPI), previously called COMESA – Leather and Leather Products Institute (COMESA/LLPI) is an intergovernmental organization established through a Charter signed by 17 heads of State on 23rd November 1990 in Mbabane, Swaziland.

ALLPI is headquartered in Addis Ababa, Ethiopia; and its membership encompasses ten countries, namely; Burundi, Eritrea, Ethiopia, Kenya, Malawi, Rwanda, Uganda, Sudan, Zambia and Zimbabwe. It is also working with Djibouti, DRC, Eswatini, Madagascar and Mauritius, under Consultancy services and expecting them to become members in the near future. The main Mandate of the Institution is to support the development of the leather sector in Africa.

ALLPI's vision is ***“To be Africa’s premier center of excellence for a competitive leather sector in the global arena”*** and its mission is ***“To facilitate Member States and link partners, enterprises and institutions for value addition, sustainability and competitiveness in the leather sector through Sharing of Knowledge and innovation”***. To achieve its vision and mission, it has nine strategic objectives which cut across the activities of the whole regional leather value chain.

As part of Regional Enterprise Competitiveness and Access to Market Program (RECAMP), ALLPI conducted capacity building workshops to 14 COMESA Member States on Hides and Skins Traceability System and Certification of Eco-Friendly Leather Products with the objective of establishing regional hides and skins traceability and certification system in Africa.

Creating online database for enterprises which are eco-friendly certified and undertaking hides and skins traceability system is part of the activities of the hides and skins traceability system and certification of eco-friendly leather products interventions. The purpose of the intervention is to provide trust, transparency and supply chain security to all customers of the regional leather industry along the value chain (tanners, manufacturers, brands, retailers).

2. Objectives

The Hides and Skins Traceability and Certification Online System is a web-based system to keep a record of all the data and information related to certification and traceability of hides and skins starting from where it is produced to final consumable leather products.

The System should enable to register enterprises with certification details from each country, hold record of the traceability codes, function as a lookup for traceability codes, and display enterprise information to the general public for visibility and marketing purposes.

The development of Hides and Skins Traceability and Certification Online System aims to:

- Keep record of hides and skins traceability details (type of hide/skin, where it is produced, when it is produced, marked code, etc.);
- Keep record of certified enterprises with details of certifications;
- Create users of various rights and privileges;
- Display details of certified enterprises to the general public;
- Improve data integrity and transparency on trading of hides and skins;
- improve efficiency of the data collection from each enterprise, analysis and information dissemination; and
- Ensure responsibility and accountability of the users involved in data management through creating appropriate auditable log file.

3. Scope of the Services

The Hides and Skins Traceability and Eco-Certification leather products Online System has to be designed in three main stages:

- Analysis and Design/Prototyping;
- System Implementation/Coding and Testing;
- Maintenance and support.

a. Analysis and Design/Prototyping

At this stage the selected firm is responsible to study and gather all the requirement details of the system by assessing the necessary documents available, conduct discussion meetings with the concerned staff members in ALLPI. In addition, the firm has to clear any ambiguity about the required system, design prototype or dummy interface of the system features, and finally produce System analysis and design document.

b. System Implementation/Coding and Testing;

This stage is the implementation stage where by agreed coding styles will be used to code the system in a modular way that will assist the maintenance of the system. Furthermore, this stage will be used to iteratively test the system module interactions for quality assurance;

c. Maintenance and support

The validation and acceptance of the system will be upon training/demonstration of the system to concerned ALLPI Staff. If there are any functional issues in the process, the firm will be doing maintenance of the system.

4. Key Responsibilities

The Assignment will have the following major activities and responsibilities:

- Analyze the detail requirement of the system;
- Produce the dummy interface of the system;
- Make the coding with standard and acceptable coding styles;
- Test the system for any possible bugs, browser compatibility, and security vulnerabilities;
- Make sure that every process is documented for future reference and maintenance;
- Deploy and test both at local server and remote server;
- Avail all the necessary experts for the same assignment;

5. Deliverables

The following are the key deliverables of this assignment:

- System Analysis and Design Document;

- The full code and database of the system;
- Technical System Manual
- Validation and Testing Report

6. Required Qualification and Experience

- shall have a valid license for performing the consultancy service in the software development work in ALLPI Member States;
- more than 3 years of experience in the field of information technology, software application programming and information management, including prior successful engagements in application development for large organizations.
- shall have adequate technical manpower to carry out the project and complete it on time. All the professionals should be employed on a full-time basis and responsibilities are delegated to these professionals based on the standard software development team.
- The Project Manager, System Analysts, Developers or any other technical member of the team must be involved in the project;
- must submit CVs with photograph for all the team members for this assignment.

7. Platform and Technology

Development Language :The system development is recommended to be implemented using Open Source Languages framework based on Java or PHP. The application is recommended to be implemented using MVC (Model View Controller) based web frameworks since they adequately address protocols and standards including application security and manageability. If the developer has alternative development language proposal, developer may provide the details on the proposed language.

Database System: The database for the applications are recommended to be implemented using Open Source Database such as MySQL, PostgreSQL, etc.

In case the vendor chooses to propose any third-party tool(s) for the solution for tuning performance, adding security features, or rapid application development, or any specific add-in software package required for analysis and processing data, full justifications and cost must be provided in the proposal.

8. Use of Source Code Management Tools

The firm must manage its source codes through a source code management tools like Subversion (SVN) /Git and Trac or any other source code management tools applicable, so that many programmers can work in parallel without duplication of work. It will also be

a useful tool to track previous versions of the codes and will be useful for debugging purpose.

9. Ownership of Source Code and other Intellectual Property

- The ALLPI will be the rightful owner of the Source Code and all Intellectual Property associated with the system and ALLPI shall have full rights over these resources.
- The entire software component developed as part of this assignment shall be the sole property of ALLPI.
- The firm will have no right to commercially use or apply the software elsewhere.

10. Duration of the assignment

- The entire work of software development and testing should be completed within **four months** from the date of award of work.
- The time period of **one month** for the firm is only for collecting requirements, and design the system.
- The firm should submit their plan for implementing the system.

12. Submission of bid Proposals

- The evaluation of the bid will be done based on both the Technical and Financial Proposals;
- The technical and financial proposals shall be submitted in a separate and sealed envelope;
- You can submit your proposals using in person or through DHL Courier service;
- Your proposal shall reach ALLPI on or before the closing date;
- The Closing date is on **16th of March 2022 at 4:30 PM.**

13. Contact:

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