Indian Institute of Carpet Technology (IICT), Bhadohi, invites proposals from experienced technical consultants for the Woolen Kaleen Mark Project. The consultant will provide RFID label specifications, hardware, and software integration details. Full details are available on the IICT website. Deadline for submission: 08/11/2024.

For more information, visit iict.ac.in.

Request for Proposal (RFP) for Technical Consultancy on Kaleen-Mark Project

1. Introduction

The Woolen Kaleen Mark Project is aimed at developing a comprehensive system for quality certification, validation, and tracking of woolen carpets and rugs through RFID-embedded labels. The project seeks a qualified technical consultant to provide detailed technical specifications for hardware, software development, and RFID label integration.

2. Scope of Work

The consultant will be required to provide the following deliverables:

2.1 RFID-Embedded Label Specifications

- Develop technical specifications for the RFID-embedded labels, including label material specification, RFID chip requirements, durability standards, and security features.
- Ensure the RFID labels meet the needs of the carpet industry and enable seamless tracking and verification across the supply chain.

2.2 Software Product Specifications

- **Web Portal**: Define detailed functional and technical specifications for the development of the Woolen Kaleen Mark Authentication Web Portal. The specifications should cover user management, label issuance, data management, tracking, and reporting modules.
- **Mobile Application**: Provide specifications for the mobile application that integrates with the web portal, including features such as QR code scanning, notifications, and real-time updates for manufacturers and other stakeholders.

2.3 Hardware Specifications

- Provide technical specifications for hardware integration, including RFID readers, barcode scanners, barcode printers, and servers required to support the system.

- Define the connectivity, storage, and processing requirements for real-time data processing and label verification.

2.4 Cost Estimation for Hardware, Software, and RFID Labels

In addition to providing technical specifications, the consultant will be responsible for preparing a comprehensive cost estimate for the following components:

- **Hardware Products:**
  - RFID readers, barcode scanners, barcode printers, and servers, including installation and maintenance costs.
- **Software Solutions:**
  - Web Portal development and Mobile Application integration, including licenses, cloud services, and database solutions.
- **RFID-Embedded Labels:**

  - Cost per unit, bulk procurement pricing, and lifetime maintenance.

3. Consultant Responsibilities

The consultant will:

- Review the existing project outline and proposed workflows.
- Collaborate with IICT and stakeholders to understand end-user requirements and design appropriate technical solutions.
- Provide detailed documentation outlining the technical specifications for hardware, RFID labels, and software development, including performance benchmarks and testing protocols.
- Advise on best practices for integrating RFID technology with the web portal and mobile application.
- Provide the cost estimates which include initial investment, operational costs, and projected long-term expenses, helping IICT budget and plan for full implementation.

4. Submission Requirements

Interested consultants are requested to submit their proposals, including:

- A detailed work plan with timelines for deliverables.
- Prior experience with RFID, software integration, and web portal development.
- A cost estimate for services, including any post-delivery support.

5. Deadline and Contact Information

The proposal must be submitted by 08/11/2024. For any queries or clarifications, please contact Dr. Betty Dasgupta, Mob: 8318707499.