Request for Proposal (RFP) for Purchase of Biometric Attendance Devices, PoE Switch, and Exit Devices

Tender ID: KFON/IT/24-25/0022
Date:

1. Introduction

Kerala Fibre Optic Network (KFON) invites proposals from qualified vendors for the supply, installation, configuration, and commissioning of biometric attendance devices with both fingerprint and card access features, a 24-port unmanaged PoE switch, and exit devices based on specified features. The system must include a web portal/software for report generation, employee management, and a GPS-enabled mobile application for field attendance marking, integrated with the portal/software via API.

2. Project Overview

Objective:
Procure and implement a biometric attendance control system to enhance security and streamline attendance management at KFON Head Office, including a 24-port unmanaged PoE switch and exit devices.

Scope of Work:

- Supply of four (4) biometric attendance devices with fingerprint and card access.

- Supply of four (4) exit devices based on specified features.

- Supply of one (1) 24-port unmanaged PoE switch.

- Installation, configuration, and commissioning at designated locations.

- Development and integration of a web portal for report generation, employee management, and CRUD operations.

- Deployment of a GPS-enabled mobile application for field attendance marking.

- Integration of the mobile application with the web portal/software via API.

- Installation of a double leaf EM lock for the front door and single leaf EM locks for the other three doors, including the server room.

3. Technical Specifications

Biometric Access Devices:

- Features: Fingerprint and card access, high accuracy, fast response time, robust build, real-time data transmission, backup battery, PoE support.

- Specifications: Minimum 3,000 fingerprint templates, 5,000 cards, 30,000 logs; TCP/IP, RS232/485, USB-host, Built-in Wi-Fi; 500 DPI optical sensor; <0.5 seconds verification speed; 3rd party electric lock, door sensor, exit button, alarm, and doorbell interface; 2.4-inch TFT color screen; 12V DC, PoE.

- Initially we required 100 cards. For Additional cards will be procured only request basis.

24-Port Unmanaged PoE Switch:

- Features: 24 Ethernet ports with PoE support, IEEE 802.3af/at compliance, plug-and-play installation, adequate power budget, durable design.

Exit Devices:

- Features: Compatible with biometric system, high accuracy, robust and durable build.

- Specifications: Optical sensor, RS485 communication, PoE support, integrated with access control system, HID Card reader.

Electromagnetic Locks:

- Front Door: Double leaf EM(Electromagnetic) lock.

- Other Three Doors (including server room): Single leaf EM locks.

- Need 3 Push button for emergency & Guest entry/exit

Web Portal/Software:

- Features: Secure login, role-based access control, real-time monitoring and reporting, attendance report generation, employee management, data synchronization, user-friendly interface.

Mobile Application:

- Features: User authentication, GPS enabled, attendance marking interface, real-time synchronization, notification system, iOS and Android compatibility.

API Integration:

- Features: Secure API for mobile app and web portal communication, real-time data transmission, comprehensive API documentation.

4. Deliverables

- Four (4) biometric access devices.

- Four (4) exit devices with specified features.

- One (1) 24-port unmanaged PoE switch.

- Installed and configured devices, switch, and exit devices at KFON Head Office.

- Double leaf EM lock for the front door.

- Single leaf EM locks for three doors, including the server room.

- Push button for emergency.

- Fully functional web portal/software.

- Mobile application for attendance marking.

- Integrated and tested system.

- User manuals and training.

5. Vendor Qualifications

- Proven experience in biometric access control systems.

- Expertise in web portal/software and mobile application development.

- Ability to provide ongoing technical support and maintenance.

- Strong references from previous clients.

6. Proposal Requirements

Company Information:

- Company profile, relevant experience, and qualifications.

Technical Proposal:

- Detailed description of the proposed solution.

- Technical specifications of biometric devices, exit devices, PoE switch, and EM locks.

- Web portal and mobile application design and features.

- Implementation plan and timeline.

Financial Proposal:

- Itemized pricing for devices, PoE switch, EM locks, software development, installation, and commissioning.

- Maintenance and support costs.

- Payment terms.

Additional Information:

- Warranty details (Min 3 years for biometric devices; 1 year for PoE switch).

- Post-implementation support and service level agreements.

7. Evaluation Criteria

- Compliance with technical specifications.

- Vendor's experience and qualifications.

- Quality and functionality of the proposed solution.

- Cost-effectiveness.

- Post-implementation support and maintenance services.

8. Submission Guidelines

Bid Submission Details:

Envelope 1: Contains Technical Proposal

Envelope 2: Contains Financial Proposal

Envelope 3: Labelled as "**Tender for the Implementation of Biometric Access Solution at KFON HO**" and should be submitted either at the KFON Office or via courier/ Post to the Managing Director, Kerala Fibre Optical Network Limited, First Floor, B Block, Divisional office, Jeevan Prakash, Pattom, Thiruvananthapuram, Pin-695004.

Submission deadline: 19/07/2024 – 4PM

9. Contact Information

For any queries or further information, please contact: **Assistant Manager (System Admin cum Network Engineer) Phone: 0471-6630830**

We look forward to receiving your proposals and collaborating to enhance our office security and attendance management systems.

Annexure -1 (Rate per items to be filled by the vendor)

Sl .No	Item	Qty	Total Amount in INR
1	**Biometric access device**	4	
2	**Exit device**	4	
3	**Double leaf EM Lock**	1	
4	**Single Leaf EM Lock**	3	
5	**Software license**	1	
6	**Push Button**	4	
7	**POE+ Switch**	1	