Annexure 1

Request for Proposal (RFP) for Clone-Free ID card System.

Introduction:

The Police Department is seeking proposals from qualified vendors to implement a state-of-the-art Clone-Free ID Card System. The purpose of this project is to enhance the security and integrity of identification cards issued to police personnel. The system should leverage cutting-edge technology to prevent cloning and ensure the authenticity of each ID card.

Project Overview:

The objective of this project is to replace the existing ID card system with a more secure and technologically advanced solution. The new system should eliminate the possibility of unauthorized duplication and cloning, providing a robust and tamper-proof identification mechanism for police personnel.

Key Features:

1. **Biometric Authentication:**
   - Implement advanced biometric features for enhanced security.
2. **QR Code Integration:**
   - Utilize QR codes for quick and secure verification.
3. **Block chain Verification:**
   - Explore block chain technology for secure and immutable records.
4. **Dynamic Visual Elements:**
   - Include dynamic visual elements to deter counterfeiting.
5. **Mobile App Integration:**
   - Provide a mobile app for real-time ID verification.

Scope of Work:

1. **Card Design and Production**: Design and produce ID cards with high-quality plastic printing, incorporating unique identifiers, security features, and aesthetic elements.
2. **Data Management**: Develop a secure and centralized database to store and manage identity card data, including personal information, card details, and access permissions.
3. **Card Issuance and Management**: Implement a user-friendly interface for issuing, managing, and tracking ID cards throughout their lifecycle, including features for cardholder registration, card renewal, and card revocation.
4. **Authentication and Access Control**: Integrate robust authentication mechanisms to verify the identity of cardholders, employing QR code scanning, biometrics, or other secure methods.
5. **Anti-Counterfeiting Measures**: Implement advanced anti-counterfeiting measures, such as holograms, micro printing, or QR code, to prevent the production of counterfeit ID cards.

6. **Integration with Existing Systems**: Integrate seamlessly with existing organizational systems, such as personnel databases and access control systems, to streamline data exchange and enhance operational efficiency.
7. **Reporting and Analytics**: Generate comprehensive reports on ID card issuance, usage, and access patterns, providing valuable insights for decision-making and security audits.
8. **On-going Support and Maintenance**: Offer on-going support and maintenance services to address any technical issues, provide software updates, and ensure the system remains up-to-date with evolving security threats.
9. **Biometric Authentication:** The system will employ advanced biometric authentication features, such as fingerprint and facial recognition, to ensure a high level of security. Biometric templates will be securely stored and encrypted to prevent unauthorized access.
10. **QR Code Integration:** Integrate QR codes into the ID card design, providing a secure and convenient method for verifying identity and accessing digital information.

    - QR codes will be utilized to enable quick and secure verification of ID cards.
    - Each ID card will contain a unique QR code containing encrypted information for identity validation.

11. **Block chain Verification:**

    - Block chain technology will be explored for creating a secure and immutable record of each ID card.
    - A decentralized and distributed ledger system will enhance the tamper-proof nature of the identification records.

12. **Dynamic Visual Elements:**

    - Dynamic visual elements, such as holograms, color-shifting inks, and micro-text, will be incorporated to deter counterfeiting.
    - These visual elements will be designed to change appearance under different lighting conditions for added security.

13. **Mobile App Integration:**

    - A dedicated mobile application will be developed for real-time ID verification.
    - The mobile app will allow authorized personnel to scan the QR code on the ID card and verify the authenticity using biometric features.

14. **Security Measures:**

    - Encryption: All data, including biometric templates and QR code information, will be encrypted using industry-standard encryption algorithms.
    - Multi-Factor Authentication: The system will support multi-factor authentication to enhance security during ID verification.

15. **Interoperability:**

- The system will be designed to integrate seamlessly with existing police department databases and systems.
- APIs will be provided for potential future integrations with external law enforcement agencies.

16. **Scalability:**

- The architecture will be scalable to accommodate future growth in the number of ID cards issued.
- Provision for easy expansion and inclusion of additional security features.

17. **User-Friendly Interface:**

- The system will have an intuitive and user-friendly interface for easy enrollment, management, and verification of ID cards.
- Training materials and support will be provided for efficient system adoption.

These technical specifications aim to ensure a robust and secure Clone-Free ID Card System that meets the highest standards of security and usability.

Submission Requirements:

- Proven experience in developing and implementing secure ID card systems for organizations.
- Expertise in QR code technology, data management, and access control mechanisms.
- Ability to integrate with existing organizational systems.
- Demonstrated commitment to providing on-going support and maintenance services.

Interested web application development start-ups are requested to submit the following:

1. **Company Profile:**
   - Overview of your company's experience and expertise in web application development.
2. **Portfolio:**
   - Examples of similar web application development projects you have completed.
3. **Technical Proposal:**
   - Detailed technical approach for upgrading the website.
4. **Timeline:**
   - Project timeline with milestones and deadlines.
5. **References:**
   - Contact information for at least three client references for whom you have completed similar projects.

Evaluation Criteria:

Proposals will be evaluated based on the criteria established by Start-up Mission and the following:

a) Experience and expertise in development and website based applications.
b) Technical approach and methodology.
c) Cost-effectiveness.
d) Compliance with government guidelines.
e) Timeliness and project management capabilities.
f) Additional services recommended by the firm to enhance the functionality and security of the website.

1. Timeline:

a) RFP Issuance Date:
b) Proposal Submission Deadline:
c) Evaluation and Selection:
d) Project Commencement:

2. Contact Information:

For any inquiries or clarifications regarding this RFP, please contact to Mr. Abdul Rassi .A (9895258496 / 9497936102) or Email: "webadminscrb.pol@kerala.gov.in".

Kerala Police looks forward to partnering with an experienced and innovative web application development company. We appreciate your interest and efforts in responding to this RFP.

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