

## Invitation to submit Proposal

**RFI Name: Supply, Delivery, Installation, Maintenance and Support of Biometric Access Control for the PPECB Centurion office**

**Number: RFI/LAB/BIOMETRIC/2024/20**

<b>Date of Issue</b>	19 November 2024
<b>Closing Date &amp; Time</b>	02 December 2024
<b>RFI Enquiries</b>	Portia Jonginyanga E-mail: <a href="mailto:PortiaJ@ppecb.com">PortiaJ@ppecb.com</a>  Tel: +27 21 930 1134
<b>PPECB business hours</b>	08:15 – 16:45
<b>Category</b>	Laboratory



**PPECB**

[www.ppecb.com](http://www.ppecb.com)

## **1 Invitation to Tender**

Bidders are invited to submit Request for Information (FRI) for the Supply, Delivery, Installation, Maintenance and Support of Biometric Access Control for the PPECB Centurion office.

## **2 SCOPE OF WORK**

The appointed contractor shall undertake to provide the PPECB with services of a high and acceptable standard, which shall include but are not limited to:

- Conduct mandatory site visits to assess the PPECB Centurion Office building and requirements.
- Supply and installation of new biometric equipment to accommodate up to 60 employees.
- Installation of compatible software and licenses for the duration of the contract period.
- Provide maintenance and support services to assist with repairs and any problems relating to the biometric equipment installed, within a 24-hour minimum period from notification by the PPECB.
- Initial training on the use of the devices and ongoing support to operate the solution effectively.
- The bidder must indicate an applicable hardware warranty for the proposed solution with the option for an extended warranty of 2 years.

### **TECHNICAL REQUIREMENTS**

#### **FINGERPRINT DEVICE**

The installed biometric system should provide but not limited to:

- Fingerprint recognition
- Wall/Door Frame mounted
- Secured relay units
- Access control functionality to all entrances but with the capability of scaled up or restricted access to certain areas (IT Server Room and IT Storeroom)
- Access control for persons with disabilities – alternative methods to authenticate employees with disabilities.
- The device should also be placed in a position that enables all employees (disabled and not) to access it.
- Must use an algorithm to enroll and encode fingerprint template. If users do not have fingerprints a keypad to be located on the reader for users to access the building via pin code.
- Provide maintenance and support of the system for the duration of the contract period (60 months) with a possible extension of a further (24 months).
- Period software updates to latest version of system.
- Installation of network points from the reader.
- Installation of electrical points to power the reader.
- Test report on the network points installed.
- User acceptance testing for biometric systems.
- Project sign-off certificate.

#### **4.1.1 Installations**

Installation of Biometric Access control readers, all network cables, hardware and other related accessories required for successful commissioning of Biometric Security Access control system.

## Hardware specification

The PPECB Centurion Office needs biometric readers on entry and exit at 10 points including entry for the ICT server room.

Specifications should include, but are not limited to the following:

- 11 x Internal readers (11 inside of the exit doors)
- 11 x External readers (10 outside the exit doors and 1 outside the IT service room)
- Motion Sensor exit buttons for ICT Server room.
- Two enrolment readers (Take-on readers)
- Power supplies for readers (A minimum of 4–6-hour battery back-up in case of power outages)
- 9 x Intercoms to be installed at main entrance door for receptionist to communicate with users (Loudspeakers & microphone intercom function)
- 8 x Push button at reception to override the biometric function (visitors or clients)
- All network cables and cabling required for the installation of the biometric system.
- Green Emergency Door Release Call Point (Plastic Break Glass)
- Ethernet Switch
- Fingerprint reader to operate in an indoor and outdoor environment and must be built for rugged and inclement weather conditions (Immune to environmental factors)
- Reader must be able to read worn or damaged fingerprints.
- Reader to be able to show visual confirmation on successful fingerprint scanning.
- Security of system to be guaranteed and storage of personal information to be secure in terms of POPIA regulations.
- EMC / Safety standards: CE, CB or FCC.
- RoHS, Reach and/or WEEE compliant.

### 4.1.2 Software Specification

- Compliant with:
  - ISO/IEC 19794-2:2011
  - ISO/IEC 19794-4:2011
  - Must have encrypted management capability with full control access
  - Bidders are to disclose any other certifiable standards not listed.
- Fingerprint scanner should be compliant to WHQL and IEC declaration of conformity
- Communication and controller should be future proof (OSDP Compliant)
- Open database for easy integration
- All events and logs must be logged and be able to export the data for reporting.
- Must be hosted on the cloud and have a cloud server application
- Database access – SQL
- Support both live finger capturing and storage of information
- Bidders' software on proposed product to be compatible with the PPECB's network security framework (Successful bidder to collaborate with the PPECB'S cybersecurity team to ensure network security).

### 4.1.3 Enrolment

- Employee name and surname.
- Employee payroll number.
- Minimum of three finger registration per employee (both hands).

#### **4.1.4 Reporting**

- System reports to be able to identify clock in/out.
- System to be able to extract real-time log of all employees at any given time.
- Fingerprints to be stored in an encrypted format and system must not allow reproduction of same.

#### **4.1.5 Team Leader and Members**

It is the responsibility of the bidder to ensure that all team members who will be working on this RFQ are PSIRA registered and in good standing.

### **FACIAL RECOGNITION**

(VISION PASS BY IDEMIA or equivalent)

The installed biometric system should provide but not limited to:

- Multi-factor authentication capability with built-in Pin code option.
- Wall/Door frame mounted
- Secured relay units
- Access control functionality to all entrances but with the capability of scaled up or restricted access to certain areas (IT Server Room and IT Storeroom)
- Access control for persons with disabilities – alternative methods to authenticate employees with disabilities.
- CPU: Nvidia ARM Cortex-A15 Quad-Core 2.1GHz or equivalent.
- 7" WVGA color capacitive touchscreen
- Intention area: Optimized capture distance to preserve user privacy
- Horizontal angle: To cope with face angles or side arrival in front of the device
- Vertical angle (120-200cm): Enables detection of persons above or below standard height (Access control for persons with disabilities).
- Must use an algorithm to enrol and encode secondary if for whatever reason, the facial recognition function is unable to capture the user.
- Provide maintenance and support of the system for the duration of contract period (60 months) with a possible extension of a further (24 months).
- Period software updates to latest version of system.
- Installation of network points from the reader.
- Installation of electrical points to power the reader.
- Test report for the network points installed.
- User acceptance testing for biometric system.
- Project sign-off certificate.
- Touchless face sensor: Visible light camera (2D), Infrared camera (2D), 3D camera
- Tamper switches
- Internal storage capacity: 200 user records extendable up to 250 user list.
- Network/Communication: Ethernet, RS485, RS422
- Inputs/outputs: Wiegand In & Out (customizable up to 512 bits), OSDP, Door relay, 3 GPI (including door monitoring), 3 GPO
- Power supply: 12 to 24 V DC (3A min @12V)
- Operating conditions: Temperature: -10°C to 45°C (14°F to 113°F) Humidity: 10%>80% (non-condensing).

- Ingress protection: IP65/IK07
- EMC/Safety standards: CE, CB, FCC
- RoHS, Reach and/or WEEE compliant.

#### **4.2.1 Installations**

Installation of Biometric Access control readers, all network cables, hardware and other related accessories required for successful commissioning of Biometric Security Access control system.

#### **Hardware specification**

Specifications should include, but are not limited to the following:

- 11 x Internal readers (11 inside of the exit doors)
- 11 x External readers (10 outside the exit doors and 1 outside the IT service room)
- Motion Sensor exit buttons for ICT Server room.
- Two enrolment readers (Take-on readers)
- Power supplies for readers (A minimum of 4–6-hour battery back-up in case of power outages)
- 9 x Intercoms to be installed at main entrance door for receptionist to communicate with users (Loudspeakers & microphone intercom function)
- 8 x Push button at reception to override the biometric function (visitors or clients)
- All network cables and cabling required for the installation of the biometric system.
- Green Emergency Door Release Call Point (Plastic Break Glass)
- Ethernet Switch
- Reader to be able to show visual confirmation on successful fingerprint scanning.
- Security of system to be guaranteed and storage of personal information to be secure in terms of POPIA regulations.
- After power failure, the sliding door for disabled people should not open automatically on return of power.

#### **Software specification**

- Compliant with the latest standards of:
  - ISO/IEC 19794-5:2011
  - Must have encrypted management capability with full control access
  - Bidders are to disclose any other certifiable standards not listed.
- Communication and controller should be future proof (OSDP Compliant)
- Open database for easy integration
- All events and logs must be logged and be able to export the data for reporting.
- Must be hosted on the cloud and have a cloud server application
- Database access – SQL
- Support both live finger capturing and storage of information
- Bidders' software on proposed product to be compatible with the PPECB's network security framework (Successful bidder to collaborate with the PPECB'S cybersecurity team to ensure network security).

#### **Enrolment**

- Employee name and surname.
- Employee payroll number.

- Face angles per employee.

#### **Reporting**

- System reports to be able to identify clock in/out.
- System to be able to extract real-time log of all employees at any given time.
- Information to be stored in an encrypted format and system must not allow reproduction of same.

A site visit **is mandatory** to determine fit-for-purpose requirements. The Site visit will be scheduled for 26 November 2024 (11h00-13h00) **A register will be completed and if your company is not on the register, your bid will be declared non-responsive.**

**NB: THIS IS AN REQUEST FOR INFORMATION THERE WILL BE NO AWARD. PPECB IS TESTING THE MARKET IN PREPARATION TO ADVERTISE THE REQUEST FOR QUOTATION /REQUEST FOR PROPOSAL (RFQ/RFP)**

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