

REQUEST FOR QUOTATION (RFQ)

Title: Supply of RFID Label Printer with Data Management System for Chemical Tracking

Reference Code: NOU/PROC/PHA/93/TAS/34-Comp 1

Issue Date: 24th June 2025

Submission Deadline: 30th July 2025

1. Background and Objective

The Ozone Unit within the National Environmental Authority invites qualified suppliers to submit quotations for the supply of an **RFID label printer with an integrated data management system**, to support the **tracking and management of chemical substances** in accordance with national and international commitments, including the **Montreal Protocol**.

This system will be used to **identify, monitor, and trace** chemical substances and must comply with industrial standards regarding **safety, durability, and traceability**.

2. Technical Specifications

2.1 RFID Label Printer

The printer must meet the following minimum requirements:

- Support for **UHF RFID technology** (EPC Gen2 / ISO 18000-6C).
- Minimum resolution: **300 dpi**.
- Minimum print speed: **100 mm/sec**.
- Interfaces: USB, Ethernet (mandatory), Wi-Fi (optional).
- Support for both **thermal transfer** and **direct thermal** printing methods.
- Suitable for use in environments with potential chemical exposure.
- User-friendly interface via display or software.

2.2 RFID Label Types

The printer must be compatible with the following:

- **RFID labels** with synthetic face stock, resistant to:

- Solvents and acids.
- UV radiation and temperature fluctuations.
- **Thermal transfer labels** with integrated RFID inlays.
- Label size range:
 - Minimum: **50 x 25 mm**
 - Maximum: **100 x 150 mm**
- Label core: 3-inch (76 mm), outer diameter up to 200 mm.
- RFID chip specifications:
 - Minimum **96-bit EPC memory**.
 - Additional user memory is preferred.
 - Read/write range of at least **3 meters**.

2.3 Ribbon Requirements

- Thermal transfer ribbons (resin or wax-resin).
- Chemically resistant.
- Sized to match label width.
- Standard color: black (other colors optional).

2.4 RFID Scanners / Readers

Handheld RFID Scanners

- UHF EPC Gen2 / ISO 18000-6C compatible
- Read speed: > 200 tags/second
- Read range: **minimum 3 meters**, ideally up to 6 meters
- Operating system: Android (v9+) or Windows CE/Mobile
- Connectivity: Bluetooth, Wi-Fi, USB
- Sync with data management system
- Touchscreen interface
- Optional: 1D/2D barcode scanning
- Battery life: minimum 8 hours
- Rugged build: Minimum IP65 rating

Fixed RFID Readers (Optional)

- Multi-antenna support (minimum 2 ports)

- EPC Gen2 support
- Read range: 4–6 meters
- Connectivity: Ethernet, PoE optional
- Compatibility with proposed data management system

3. Data Management System

The system/software must offer:

- Label design and printer control functionalities.
- Database integration (MySQL, MS SQL, PostgreSQL, or API-based).
- Features for:
 - Scanning, tracking, and historical logging of items.
 - Exportable reports (PDF, Excel).
- Multilingual interface (at least English and Dutch).
- User management and data export capability.

4. Training and Support

- Installation manual and implementation assistance.
- At least two (2) user training sessions (on-site or virtual).
- Minimum **12-month warranty** and technical support.
- Option for maintenance contracts is an asset.

5. Delivery Conditions

- **Delivery location:** Zinniastraat 35, Paramaribo (Suriname, South America)
- **Delivery timeline:** Within 4 (four) weeks after purchase order confirmation.
- Please indicate if shipping and installation costs are included.

6. Required Supplier Information

Submitted quotations must include:

- Detailed price quotation in **USD or SRD**
- Technical datasheets or brochures.
- Delivery schedule and warranty conditions.
- Past performance or reference projects (if available).
- Description of after-sales services.
- Payment terms.

7. Evaluation Criteria

- Technical compliance with specifications.
- Price-to-quality ratio.
- Delivery timeline and warranty.
- Availability of support and service infrastructure.

8. Quotation Submission Address

Quotations must be submitted by **July 30th 2025**, to:

Attn: **National Environmental Authority**, the Ozone Unit

Zinniastraat 35, Paramaribo (Suriname)

Email: secretariaat@nmasuriname.org with a c.c. to d.bogor@nmasuriname.org

Subject: Quotation – RFID Label Printer for Chemical Tracking

9. Contact for Clarifications

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