



CENTRAL WATER AUTHORITY

ST. PAUL – MAURITIUS

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REQUEST FOR EXPRESSION OF INTEREST

Authorised under Section 24 of the Public Procurement Act 2006

Contract CWA/C2026/244

EXPRESSION OF INTEREST (EOI) FOR THE IMPLEMENTATION OF A BARCODE-BASED INVENTORY MANAGEMENT SYSTEM INTEGRATED WITH ORACLE ERP FOR CWA

1. INTRODUCTION

The Central Water Authority (CWA) is a parastatal body falling under the aegis of the Ministry of Energy and Public Utilities and was established under the provision of the Central Water Authority Act No.20 of 1971, which came into effect in July 1971 by proclamation No.9 of 1971. The CWA is responsible for the control, development and conservation of water resources and the treatment and distribution of water to domestic, industrial and commercial purposes throughout Mauritius. Since the water resources took over the responsibility of water resources administration, the CWA is now mainly responsible for the treatment and distribution of potable water for domestic, commercial and industrial usage.

The Central Water Authority (CWA) is seeking to modernize its warehousing and inventory management processes through the implementation of a Barcode-Based Inventory Management System (or equivalent smart identification technology such as RFID), fully integrated with the existing Oracle E-Business Suite (Oracle R12).

The purpose of this Expression of Interest (EOI) is to invite reputable and experienced service providers to express their interest in the design, supply, implementation, and integration of the proposed solution.

The EOI is expected to lead to a request for proposals (RFP) for the above-mentioned project from short-listed applicants.

2. BACKGROUND

CWA currently manages inventory and warehousing operations across multiple stores, involving the handling of materials such as pipes (Inside of store & Outside of store), fittings (Inside of store & Outside of Store), meters, and other operational equipment.

Existing processes are partly manual and require enhancement to:

- Improve inventory accuracy and visibility
- Reduce risks of losses, pilferage, and inefficiencies
- Enable real-time tracking of stock movements
- Strengthen internal controls and audit mechanisms
- Ensure seamless integration with Oracle R12 Inventory, Purchasing and Financial modules

The proposed system will leverage barcode or equivalent technologies to automate and streamline inventory operations.

3. OBJECTIVES

The main objectives of the project are to: -

- Implement a barcode-based (or equivalent) inventory management system across CWA warehouses
- Enable real-time tracking of inventory movements (receipts, issues, transfers, adjustments)
- Integrate seamlessly with Oracle R12 (Inventory, Purchasing, and Financial modules)
- Enhance stock accuracy, traceability, and reporting
- Strengthen controls on inventory management and accountability
- Improve operational efficiency and reduce manual intervention

4. SCOPE OF SERVICES

The prospective service provider shall include but will not be limited to the following: -

a) Requirements Gathering and Analysis

- Conduct detailed assessment of current warehouse and inventory processes
- Align system requirements with Audit recommendations and findings
- Identify integration points with Oracle R12

b) System Design and Implementation

- Design and implement a Barcode / RFID-based Inventory Management System
- Provide handheld devices (scanners/mobile devices) and labelling solutions
- Configure warehouse locations, bin management, and stock categorisation

c) Oracle R12 Integration

- Integrate the solution with Oracle R12 modules (Inventory, Purchasing, iProcurement, and Financials)
- Ensure real-time or near real-time synchronization of transactions
- Maintain data integrity and audit compliance

d) Core Functionalities

The system should support:

- Goods Receipt (GRN) with barcode scanning
- Stock issuance and returns
- Stock transfers between warehouses
- Cycle counting and physical stock verification
- Real-time inventory visibility
- Batch/serial tracking where applicable
- Alerts and notifications for stock levels/re-order levels
- Solution to support concurrent users
- Audit trails for all transactions
- Reporting and analytics dashboards

f) Scalability

Solution needs to be scalable to support any future warehouse expansion, additional stores and emerging technologies.

g) Mobility

- Mobile or handheld device support for warehouse operations
- Offline capability with synchronization (if required)

h) Security and Controls

- Role-based access control
- Full audit trail for transactions
- Compliance with IT security policies

i) Deployment and Go-Live

- System installation, configuration, testing, and rollout
- Data migration (if required)
- Pilot implementation before full deployment

j) Training and Knowledge Transfer

- Training for warehouse staff, IT team, and administrators
- User manuals and technical documentation

k) Maintenance and Support

- Post-implementation support for at least 12 months
- System updates, troubleshooting, and performance monitoring

5. INVITATION

In this context, the CWA hereby invites Expression of Interest (EOI) from experienced suppliers to indicate their willingness to participate in this project. The information requested in the EOI will be a pre-requisite to enable CWA to decide on the capabilities of potential firms with the relevant operational and performance requirements for the implementation of a Barcode-Based Inventory Management System Integrated with Oracle ERP for CWA. The information provided in this EOI will be used to assess the technical capabilities, experience, and qualifications of the firms to handle this project.

It is to be noted that the EOI should not include any Financial Proposal. The CWA may call interested suppliers to conduct a system demo if need be.

The CWA may also conduct a site visit for interested suppliers to access the warehouse operations and existing infrastructure.

ELIGIBILITY OF APPLICANT

Interested firms will be assessed on the basis of, but not limited to the following criteria: -

- a) Having proven experience in implementation of Barcode / RFID / Inventory Management / Warehouse Management Systems in medium to large organisations.
- b)** Supplier shall have successfully completed at least **two (2) similar assignments** involving inventory digitilisation, warehousing automation or ERP integration. Testimonials / completion certificates to be submitted.
- c) Demonstrated experience in integration with Oracle ERP / Oracle E-Business Suite / Oracle R12 or equivalent ERP platforms.
- d) Supplier should have financial and technical capacity to undertake the project.

6. QUALIFICATION CRITERIA

The Project Lead and assigned staff should meet one or more of the following:

1. Project Manager with at least 5 years' experience managing ICT / ERP / Warehouse Automation projects.
2. Degree in IT / Computer Science / Engineering / Supply Chain / Logistics.
3. Proven experience in implementation of:
 - Barcode Systems
 - RFID Systems
 - Inventory Management Systems
 - Warehouse Management Solutions
4. Experience in Oracle R12 integration, API development, middleware or database interfacing.
5. Experience in hardware deployment:
 - Barcode scanners
 - Mobile terminals
 - Label printers
 - RFID readers (if proposed)
6. Possess good communication and interpersonal skills.
7. Professional Certifications in the field of Project Management, IT, Supply Chain or any other related field would be an advantage.

The EOI response shall include the following details:-

- Profile of the participating firm. To provide a description of the firm, including its background, history, and relevant areas of expertise.
- Details of experience in similar assignments undertaken over the last five years.
- The Curriculum Vitae (CVs) of the personnel proposed for this project, including the Project Manager and key technical staff.
- Implementation methodology
- Proposed Training plan
- Proposed Maintenance: corrective and preventive actions. Backup policies and minor updates.
- Proposed solution architecture
- Proposed barcode / RFID technology
- Hardware specifications

7. TIME SCHEDULE

The project is expected to be completed within 3 months as from the commencement date, with a 1-year maintenance and post support following the go-live.

8. PROJECT FUNDING

The Project will be funded by the CWA.

9. AVAILABILITY OF EOI DOCUMENT

Interested service providers are invited to consult the Public Procurement Website:

publicprocurement.govmu.org and CWA's website: **<https://cwa.govmu.org>**

where they may download the EOI document.

10. GUIDELINES AND IMPORTANT NOTES

Applicants will have to comply strictly with the following guidelines and important notes when submitting their Expression of Interest:

a) Interested service providers having the required expertise and capabilities and having undertaken assignment(s) of similar nature and complexity, to express their interest in providing the above services.

Such information will be used to determine the compliance of the firms with respect to the requirements given in section 4. Submissions that do not comply with the requirements specified in section 4 will not be further considered.

b) Selection of the service provider will be in accordance with the provisions of the Public Procurement Act 2006 of Mauritius.

11. OTHER TERMS AND CONDITIONS

a) CWA reserves the right to cancel / withdraw the invitation without assigning any reason thereof.

b) CWA reserves the right to accept / reject any proposal or call for any clarification / information.

CWA may invite suppliers for a presentation in relation to this EOI at their own costs. There is no fee for participation in the EOI.

12. CORRESPONDENCE

All correspondences related to this exercise shall be made in English. Any clarification sought by any firm in respect of the above shall be addressed at latest, fifteen days before the deadline for the submission of Expression of Interest to the attention of the General Manager, Head Office, Central Water Authority, St-Paul, Phoenix, Mauritius or at the email address: infodesk@cwa.mu

The reply thereto will be sent as an addendum to all prospective suppliers without identifying the source of clarifications at latest seven (7) days prior to the deadline for the submission of Expression of Interest.

13. SUBMISSION OF APPLICATIONS

Applications, in sealed envelopes and together with documents with respect to the requirements for qualifications as per Expression of Interest document, in original and 2 copies, must be addressed to;

**The secretary
Bid Opening Committee
Central Water Authority
St-Paul, Phoenix
Mauritius.**

and deposited in the bid box located in the Bid Opening Room, Ground Floor, New Building of the Central Water Authority Headquarters, Royal Road, St Paul Phoenix by on or before **15th June 2026, 13.00 hrs** (Local Time) at latest.

The Envelope shall be clearly marked: Contract **CWA/C2026/244- Implementation of a Implementation of a Barcode-Based Inventory Management System Integrated with Oracle ERP for CWA**

No late submissions of the EOI will be considered.

14. OPENING OF APPLICATIONS

The Expression of Interest will be opened on **15th June 2026 at 13:01 hours** local time in the bid opening room, ground floor, new building of the Central Water Authority Headquarters, St Paul, Phoenix.

14th May 2026