

Memo No. SUDA-11014(24)/1/2026/ 6079

Date: 29.07.2026

:: EXPRESSION OF INTEREST (EOI) ::

Supply, Installation, Operation and Maintenance of Reverse Vending Machines (RVMs) with Cloth Bag Dispensing System

Applications are invited from agencies/startups/ NGOs/ social enterprises/ organizations interested in ‘Supply, Installation, Operation and Maintenance of Reverse Vending Machines (RVMs) with Cloth Bag Dispensing System for Collection of PET Bottles in Urban Local Bodies of West Bengal’.

➤ **Expected Outcomes:**

The project is expected to:

- Increase recovery and recycling of PET plastic bottles.
 - Promote behavioral change among citizens.
 - Reduce littering of plastic waste.
 - Encourage adoption of reusable cloth bags.
 - Support implementation of Plastic Waste Management Rules and Swachh Bharat Mission (Urban).
 - Strengthen circular economy initiatives in Urban Local Bodies.
- Details of the Scope of work and other details are annexed.
- Interested organizations are requested to submit their profile, experience, proposed business model, and implementation plan to wbsudatenders@gmail.com only.
- Last date for submission of application is **06.08.2026** (05:30 evening). Other details are available at website <https://www.sudawb.org/> and <https://www.wburbanservices.gov.in/>.
- For further details or submission-related queries, interested organizations may contact Sri S. K. Mishra (Mob.: 98367 23252) or Sri K. Mahata (Mob.: 9002424713).

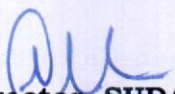

Director, SUDA

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Copy forwarded for information to:

1. FA, SUDA
2. Sri S. K. Mishra, EE, SUDA
3. Sri L. Das, LDC may kindly arrange to publish the EOI on the 03 Newspaper and display the same on the SUDA/ Deptt. website for wide publicity.
4. Sr. PS to Additional Chief Secretary, UD & MA Department, Govt. of West Bengal
5. Private Secretary to Hon'ble MIC, UD & MA Department, Govt. of West Bengal


Director, SUDA

Annexure-I

1. **Background:** The State Urban Development Agency (SUDA), Government of West Bengal, is implementing various initiatives under the Solid Waste Management framework to promote reduction of plastic waste, encourage recycling, and foster sustainable environmental practices.

- As part of this initiative, SUDA proposes to install Reverse Vending Machines (RVMs) at prominent public locations across selected Urban Local Bodies (ULBs). The machines shall incentivize citizens to deposit used Polyethylene Terephthalate (PET) plastic bottles in exchange for coupons redeemable for reusable cloth bags, thereby encouraging responsible plastic waste disposal and reducing dependence on single-use plastic carry bags.
- Accordingly, Expression of Interest (EOI) is invited from eligible agencies having experience in design, supply, installation, operation and maintenance of Reverse Vending Machines and associated IT-enabled solutions.

2. Objective:

The objectives of the project are:

- To promote segregation and scientific collection of post-consumer PET bottles.
- To incentivize citizens for responsible disposal of plastic waste.
- To encourage the use of reusable cloth bags as an alternative to single-use plastic carry bags.
- To establish an efficient collection mechanism for recyclable plastic waste.
- To create awareness regarding circular economy and sustainable waste management practices.

3. Scope of Work:

The selected agency shall be responsible for the following:

A. Supply & Installation

- Design, manufacture/supply, installation and commissioning of Reverse Vending Machines (RVMs) at locations identified by SUDA/ULBs.
- Supply of all accessories, foundations (if required), electrical connections, networking equipment and other associated hardware.

B. Functional Requirements

Each Reverse Vending Machine shall:

- Accept empty PET bottles of different standard sizes.
- Automatically identify and validate PET bottles.
- Reject non-PET materials and contaminated bottles.
- Count the number of accepted bottles.
- Generate a coupon/voucher corresponding to the number of PET bottles deposited.
- Display user instructions through an LED/LCD display.
- Maintain electronic records of all transactions.
- Prevent duplication or misuse of coupons.

C. Coupon-Based Cloth Bag Distribution

The machine shall issue coupons equivalent to the incentive value based on the number of PET bottles deposited.

The coupon shall indicate:

- Date & Time
- Machine ID
- Number of PET bottles deposited
- Coupon Value
- QR Code/Barcode/Unique Serial Number

The issued coupon shall be redeemable at designated distribution counters for obtaining reusable cloth bags of prescribed quality.

The mechanism for redemption may be:

- Immediate dispensing through an integrated vending mechanism; or
- Redemption through authorised distribution centres identified by the concerned ULB.

D. Software & Monitoring

The agency shall provide:

- Centralized cloud-based monitoring platform.
- Dashboard for SUDA and ULB officials.
- Live monitoring of machines.
- Bottle collection statistics.
- Coupon generation and redemption records.
- Machine health status.
- Alerts for storage capacity, power failure and faults.

E. Operation & Maintenance

The selected agency shall:

- Operate the machines during the contract period.
- Ensure regular removal of collected PET bottles.
- Maintain cleanliness around machines.
- Undertake preventive and breakdown maintenance.
- Ensure minimum uptime of 95%.
- Replace defective components without additional cost during the maintenance period.

4. Locations

Initially, Reverse Vending Machines shall be installed at prominent public locations such as:

- Major Markets
- Municipal Markets
- Bus Terminals
- Railway Stations (subject to permission)
- Shopping Areas
- Public Parks
- Government Offices
- Tourist Locations
- Other locations identified by SUDA/ULBs

The number and location of machines shall be decided by SUDA.

5. Technical Specifications (Indicative)

The Reverse Vending Machine should preferably have:

- Weather-resistant enclosure suitable for outdoor installation.
- Minimum storage capacity of 300–500 PET bottles.
- Automatic bottle recognition system.

- Compaction mechanism (preferred).
- Thermal printer for coupon generation.
- QR/Barcode enabled coupon.
- GSM/4G/Ethernet connectivity.
- UPS/Power backup.
- Remote monitoring capability.
- Anti-theft and vandal-resistant design.

7. Deliverables

The selected agency shall provide:

- Reverse Vending Machines.
- Installation & Commissioning.
- Software Platform.
- User Manuals.
- Training to ULB officials.
- Monthly Performance Reports.
- Maintenance Reports.
- PET Bottle Collection Reports.
- Coupon Redemption Reports.

8. Selection Methodology

The EOI shall be evaluated based on:

- Technical capability.
- Relevant experience.
- Financial strength.
- Demonstration of proposed solution.
- Innovation and technological features.
- Presentation before the Evaluation Committee (if required).

- Only shortlisted agencies may be invited to participate in the subsequent procurement process, which may be through a Request for Proposal (RFP) or an open tender incorporating the required technical specifications.
- Preference will be given to agencies having innovative, sustainable, and technology-driven waste management solutions.

9. Submission of EOI

Interested agencies shall submit:

- Company Profile.
- Technical Brochure of proposed Reverse Vending Machine.
- Experience: Details of similar projects completed.
- Financial proposal: Prospective price per Machine with AMC
- GST, PAN and Registration Certificates.
- Proposed methodology and implementation approach
- Interested organizations are requested to submit their profile, experience, proposed business model, and implementation plan to wbsudatenders@gmail.com only.
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