

**Patented
Technology**

**Automatic
Self-Sanitized
eToilet**

**EGRESAN AUTTOGOES PVT LTD
WITH BRAND NAME
-EGTOILET**



← **MALE TOILET**
FEMALE TOILET →

EGRESAN AUTTOGOES PVT LTD

We, **EGRESAN AUTTOGOES PRIVATE LIMITED**, comprise the research and innovation team responsible for developing a state-of-the-art Smart Hitech Washroom that revolutionizes public restroom experiences by addressing real-time issues.

Through the integration of cutting-edge software and hardware solutions, we have effectively tackled the challenges traditionally associated with washrooms, with a primary focus on enhancing hygiene and safety.

As a woman and the owner of Egresan, I have personally encountered the pressing issue of hygiene in ladies' washrooms. Particularly during menstruation, the need to change pads and maintain intimate hygiene often exposes us to unsanitary conditions, leading to potential infections.



In a world where clean public sanitation is still a dream in many regions, Egresan Auttogoes Pvt. Ltd., a Nagpur-based startup, emerges as a game-changing force. With a bold vision to revolutionize hygiene in public spaces, the company has developed India's first steel structured, chemical-free, self-sanitised eToilet—a fully automated solution powered by real-time smart technology.

The Founder's Vision

Founded by **Ms. Sanjeevani Surendra Gondane**, a dynamic electrical engineer, entrepreneur, and social changemaker, Egresan is not just a company—it's a mission. Sanjeevani's background in power systems, combined with her passion for women's dignity, health, and environmental innovation, led her to create a product that addresses one of the most neglected yet essential areas of public infrastructure: clean toilets.

She is also a recipient of the **Patented Festival, recognizing innovation in toilet sanitation and hygiene solutions in 2023** and has been featured in Lokmat and Abhijeet News Channel for her impactful work.



Our Objective

Our mission is simple yet powerful:

“To provide dignified, clean, and sustainable sanitation solutions that are safe, smart, and accessible to all—especially in public and rural settings.”

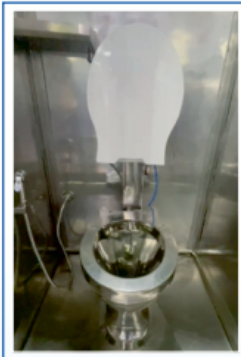
We aim to support national goals like **Swachh Bharat Abhiyan** and **Smart Cities Mission**, and create public spaces where hygiene is not a luxury, but a standard.

Pilot Success & Implementation

The first working prototype of the EG-Toilet was successfully **installed at Gram Panchayat, Besa, Nagpur**, with positive feedback from the community and local authorities.



**Automatic Western
Commode Steel Ss304**



**Automatic Opening,
and Cleaning**



**Sanitised Per
User**

Additionally, through our distributor network, the EG-Toilet is actively operational at **Indira Gandhi Government Medical College, Nagpur**, serving hundreds of users daily with minimal maintenance.



Original Site



EG-Toilet

Smart Operating System – EG-Toilet (Self-Sanitizing Smart Toilet)

How It Works:

The EG-Toilet is designed with an intelligent and automated control system that ensures maximum hygiene, safety, and user convenience through sensor-based and QR/PUSH button operations.

1. Entry Activation (QR Code / Push Button System):

- a) The toilet is activated via a QR code scan or push button at the entrance.
- b) Upon activation and user entry, the following systems are triggered automatically: LED Lighting turns on.
- c) Ventilation Fan starts for air circulation.
- d) Odor Control/Smell Reduction System activates immediately to neutralize any unpleasant odors.

2. Occupancy Detection:

- a) The system detects the presence of a person and displays “ENGAGED” outside the toilet through an external display panel.
- b) If the door is closed by mistake and no human is detected within 5 seconds, the system resets to “VACANT” mode automatically.

3. Post-Usage Exit Process:

- a) After the user finishes and exits:
 - Door closes automatically.
 - The system begins a multi-step automated cleaning process

Automated Cleaning & Sanitization Process (Begins After Exit):

1. Post-Usage Exit Process: Internal wall panels are cleaned using an automated spray

2. Floor Cleaning: The floor is sprayed with nozzles on perforated holes.

3. Auto Flushing: The toilet bowl is automatically flushed to maintain hygiene and prevent odor retention.

4. Auto Flushing: The toilet seat is cleaned, sanitized, with compact steam water technology

5. Vacant Notification:

- Once the complete cleaning and sanitization process is completed, the system resets, and the external display changes to “VACANT”
- The toilet is now ready for the next user.

How Self-Sanitization is Achieved in EG-Toilet

The EG-Toilet uses a chemical-free steam-based self-sanitization system designed to eliminate harmful bacteria, viruses, and pathogens commonly found in public restrooms. This system is based on scientific research regarding the thermal destruction of microbes and ensures hygiene without the use of harmful disinfectants.

Understanding Toilet Bacteria:

Public toilets are breeding grounds for various harmful microorganisms, including:

- a) **E. coli** – Found in fecal matter, can cause infections.
- b) **Salmonella** – Can cause food poisoning and intestinal infections.
- c) **Staphylococcus aureus** – Found on surfaces and skin, can cause skin and respiratory infections.
- d) **Enterococcus** – Found in human intestines, can be drug-resistant.
- e) **Norovirus** – Spreads via surfaces, causes vomiting and diarrhea.

Scientific Basis of Steam Sanitization:

- a) Most bacteria and viruses begin to die at temperatures above 60°C.
- b) Complete destruction of harmful pathogens like E. coli, Salmonella, and Staphylococcus occurs at temperatures of 70°C to 100°C.
- c) We have developed the technology compact steam water technology to work on this bacteria for sanitization.
- d) EG-Toilet maintains a sanitization

Outreach



Hon'ble **Shri Nitin Gadkari ji** visited our stall, Advantage Vidarbha, in 2025.



Honoured to have **Mr. Tumane, Hon'ble Member of Parliament,** visit our stall



Delivered a presentation to **Ms. Aditi Tatkare, Hon'ble Minister of Women and Child Development, Government of Maharashtra**



We were honored to have **Mrs. Kanchan Gadkari** on our stall.



Had the privilege of discussing Egresan's innovation with **Mr. Vipin Kumar, Chief Scientist and Former Director of the National Innovation Foundation (NIF), India**



Discussed with **Collector of Chandrapur**

★ ★ ★ OUR ACHIEVMENT ★ ★ ★

स्त्रियांच्या टॉयलेटाचा प्रश्न सोडवेल संजीवनीचे हे तंत्र!

उपक्रम
सोम वारचे

स्त्रियांच्या टॉयलेट
असोबतच सोडविले जाणारे इतर प्रश्ने सोडवण्यासाठी सोम वारचे उपक्रम सुरू करण्यात आले आहे. सोम वारचे टॉयलेट ही एक अत्याधुनिक सोल्यूशन आहे. ही टॉयलेट स्वच्छता, सुरक्षा, सुविधा, वेगळे सोडवण्यासाठी सोडविले जाणारे इतर प्रश्ने सोडवण्यासाठी सोम वारचे उपक्रम सुरू करण्यात आले आहे.

दुर्घटनेतून सुविधा
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★ ★ ★ FEATURE IN LOKAMT PAPER AND ABHJEET NEWS ★ ★ ★



Appreciation from Advantage Vidharbha Association conducted and Association For Industrial Development with help of Hon. Nitin Gadkari Sir



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