



ZESTPLUS

TECHNOLOGIES PVT. LTD.

Smart Hygiene Infrastructure

SMART WOMEN HYGIENE INFRASTRUCTURE SOLUTIONS

IoT ENABLED SANITARY PAD
VENDING & DISPOSAL ECOSYSTEM

*“Ensuring Accessibility, Dignity
& Safe Disposal for Every Woman”*



PRODUCT PORTFOLIO



IoT Enabled COMBO Machine
(Sanitary Pad Vending cum
Incinerator Machine)



**Smart Sanitary Pad
Vending Machine**



**Smart Sanitary Pad
Incinerator Machine**

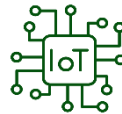


**Dashboard & Analytics
Monitoring System**



**Installation, Commissioning
& AMC Services**

TECHNOLOGY ENABLED FEATURES



**IoT
Monitoring**



**Smart
Dashboard**



**Realtime
Alerts**



**AMC &
Service Support**



**Eco-friendly
Disposal**



**CPCB &
SWM Rules
Aligned Design**

DESIGNED FOR



**School &
Colleges**



**Panchayati
Raj**



**Govt.
Institutions**



**Public
Toilets**



**Smart City
Projects**



**Health
Centres**



**Corporate
& Factories**



**CSR &
NGO**

COMMITTED TOWARDS

Women Health || Hygiene || Safety || Sustainability || Smart Infrastructure



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MENSTRUAL HYGIENE IS NOT A CHOICE IT IS A BASIC HUMAN RIGHT

Menstrual hygiene management is an essential part of women health, personal dignity, public hygiene and safe sanitation infrastructure.



A hygienic and dignified environment for women is not just infrastructure – it is a social responsibility. ”



THE REAL CHALLENGE

Many girls and women face difficulties due to:



Non-availability of sanitary napkins



Lack of emergency hygiene support



Unsafe disposal practices



Absence of dedicated disposal systems



Poor washroom hygiene infrastructure

In schools and colleges, inadequate menstrual hygiene facilities may also contribute towards:

- Student discomfort
- Reduced participation
- Absenteeism during menstrual cycles
- Psychological hesitation and stigma



WHY MENSTRUAL HYGIENE INFRASTRUCTURE IS IMPORTANT



Better Health & Hygiene

Safe and hygienic menstrual practices help maintain cleanliness and reduce health risks.



Dignity & Accessibility

Easy access to sanitary products ensures comfort, confidence and dignity for women and girl students.



Safer Public Sanitation

Scientific disposal systems help maintain cleaner washroom and public hygiene standards.



Institutional Responsibility

Modern institutions are expected to provide safe hygiene infrastructure, menstrual hygiene support and environmentally responsible disposal mechanisms.

NEED FOR SMART HYGIENE INFRASTRUCTURE

Traditional systems often fail due to:

- Poor maintenance
- Lack of monitoring
- Improper servicing
- No refill management
- Absence of disposal systems



ZEST+ aims to bridge this gap through:

- Smart, automated vending
- Safe disposal systems
- IoT monitoring
- Dashboard analytics
- AMC support ecosystem



OUR VISION



To create Accessible, Safe & Sustainable Women Hygiene Infrastructure

across schools, colleges, public institutions, smart city infrastructure, government facilities and corporate & industrial campuses.

THE ZEST+ APPROACH



Easily Accessible



Hygienically Maintained



Technologically Monitored



Environmentally Responsible



Operationally Sustainable

LEGAL, GOVERNMENT & ENVIRONMENTAL COMPLIANCE FRAMEWORK

ZEST+ aims to support institutions with

Smart, Responsible & Compliance-Oriented Hygiene Infrastructure Solutions



MENSTRUAL HYGIENE & RIGHT TO DIGNITY

The Hon'ble Supreme Court of India, in various observations relating to Right to Health, Dignity of Women, Access to Menstrual Hygiene, Equality & Educational Access has emphasized the importance of ensuring safe and accessible menstrual hygiene infrastructure for women and girl students under the broader scope of **Article 21 – Right to Life & Dignity.**

Landmark Judgement: Dr. Jaya Thakur vs UOI

Institutions should ensure safe hygiene infrastructure, accessible sanitary facilities and environmentally responsible disposal systems.

CBSE GUIDELINES & SCHOOL HYGIENE INITIATIVES

The Central Board of Secondary Education (CBSE) has issued circulars and advisories encouraging schools to promote menstrual hygiene awareness, ensure access to sanitary napkins and improve sanitation facilities for girl students.

These initiatives are aimed at creating safer school environments and better hygiene accessibility.

NGT & ENVIRONMENTAL RESPONSIBILITY

The National Green Tribunal (NGT) has repeatedly emphasized the importance of environmental protection, scientific waste disposal, public sanitation management and safe handling of sanitary waste.

Modern institutions are increasingly expected to adopt sustainable hygiene infrastructure and responsible waste management systems.

WHY INSTITUTIONS NEED SMART HYGIENE SYSTEMS

-  Safe Hygiene Accessibility
-  Proper Sanitary Waste Disposal
-  Sustainable Infrastructure Systems
-  Better Washroom Hygiene Standards
-  Women-Friendly Facilities
-  Smart Monitoring & Maintenance Systems



SOLID WASTE MANAGEMENT RULES (2016)



CPCB & SOLID WASTE MANAGEMENT (SWM) COMPLIANCE

The Central Pollution Control Board (CPCB) and Solid Waste Management Rules have emphasized scientific disposal of sanitary waste, segregation and safe handling of hygiene waste and proper waste management practices.

ZEST+ supports institutions through sanitary disposal systems and controlled incineration

ZEST+ SUPPORTS MODERN INSTITUTIONS THROUGH



APPLICATION AREAS

- Schools & Colleges
- Panchayati Raj
- Govt Institutions
- Public Toilets
- Smart City Projects
- Health Centres
- Metro & Railways
- Offices/ Factories
- Hostels
- Indian Highways
- Dhabas/ Motels
- Petrol Pumps

ZESTPLUS PRODUCT PORTFOLIO

& SMART FEATURES

ZEST+ offers a complete ecosystem of **Smart Women Hygiene Infrastructure Solutions.**

1 IoT Enabled Combo Machine

4G LTE IoT ENABLED SANITARY PAD VENDING CUM INCINERATOR MACHINE

The flagship solution of ZEST+ combines vending, ecofriendly disposal and IoT monitoring in one integrated system.

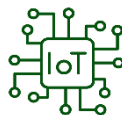
- ❖ Automated Sanitary Pad Vending
- ❖ Smart Waste Pad Disposal
- ❖ IoT Monitoring System
- ❖ Dashboard Analysis
- ❖ AMC & Maintenance Support
- ❖ NGT/CPCB Compliant Design

KEY FEATURES OF THIS MACHINE: -

- Real-time Stock Alerts: **Low/No Stock**
- Real-time Machine Status: **Live/Offline**
- Real-time **sensing of Temperatures**
- Customizable for **different Pad Pack sizes**
- Phygital Payment Options: **Coin/UPI/RFID**
- **4G LTE** Module M2M (**Airtel/Jio/Vi**)
- **24x7** Online Monitoring & Controlling
- Automated Daily/Monthly **MIS Reports**
- **OTA (Over The Air) Programming** facility
- **Dual Chamber** Inci design for flue gas treatment to **meet NGT/CPCB norms**
- **Inventor/Battery backup** support in cut-off
- Automated Inci **Hygiene Cycle every 24 Hrs**
- **Auto AC cut-off** feature in case of Earthing
- **No Heater** running while **Inci Doors Open**
- **Centralized Rebooting Machine** option
- **Stock Refilling & Coin Collection Report**



TECHNOLOGY ENABLED FEATURES



IoT Monitoring



Smart Dashboard



Realtime Alerts



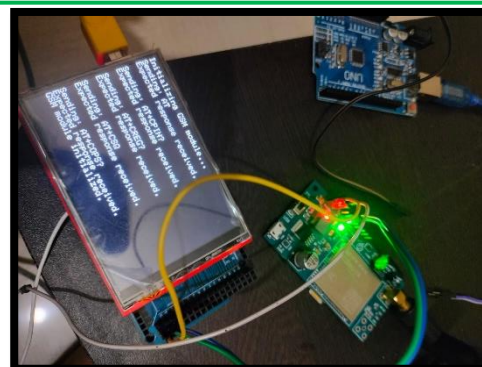
AMC & Service Support



Eco-friendly Disposal



CPCB & SWM Rules Aligned Design



In-house dedicated R&D Team Support

Special Note: All the features and programming of this machine is fully customizable as per your requirements.

2

Sanitary Pad Incinerator Machine

DUAL CHAMBER TECHNOLOGY BASED SANITARY PAD INCINERATOR MACHINE

This machine is designed for safe and hygienic disposal of sanitary napkins. This machine meets CPCB, NGT and SWM Norms.

- ❖ Smart Waste Pad Disposal
- ❖ Auto Cut-Off Safety Feature
- ❖ Real-time Temperature sensing
- ❖ Dual Chamber for Flue gas Treatment @950 degrees to meet standards
- ❖ Auto Hygiene Cycle every 24 Hrs
- ❖ IoT Monitoring System
- ❖ Dashboard Analysis
- ❖ AMC & Maintenance Support
- ❖ NGT/CPCB Compliant Design

**WHAT IS DUAL CHAMBER TECHNOLOGY?**

As per the Solid Waste Management Rules, 2016 (amended in 2018), waste incineration systems are required to maintain high-temperature combustion standards for environmentally safe disposal.

While there are no separate dedicated guidelines specifically issued for small sanitary napkin incinerators, the SWM Rules, 2016 prescribe that:

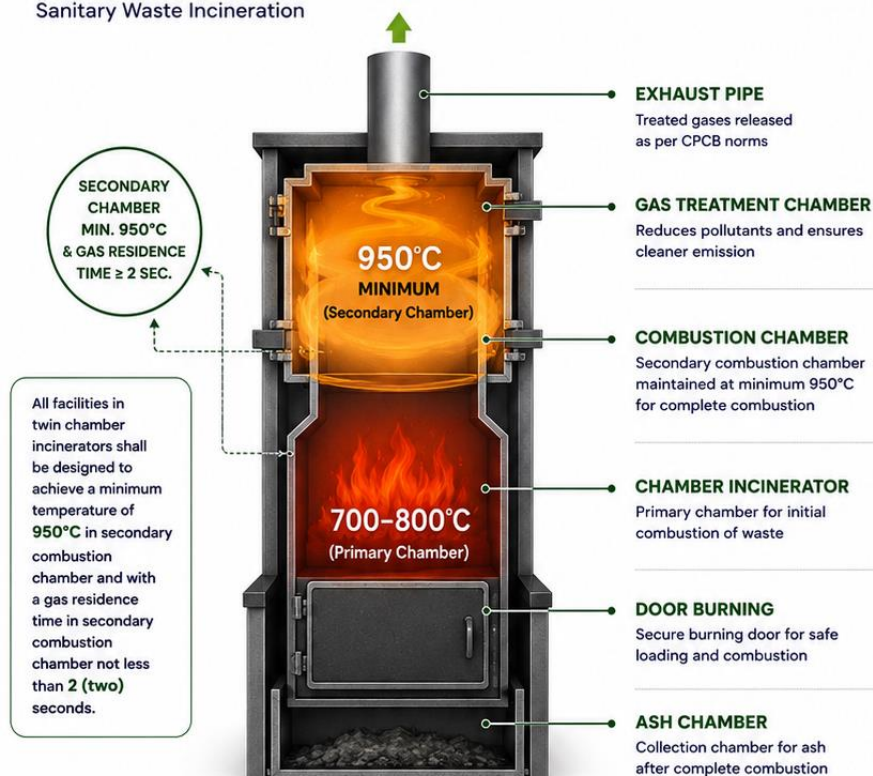
“All facilities using twin-chamber incinerators shall be designed to achieve a minimum temperature of 950°C in the secondary combustion chamber, with a gas residence time of not less than 2 (two) seconds.”

These environmental compliance principles have also been emphasized by the Hon'ble National Green Tribunal (NGT), Principal Bench, for ensuring safe sanitary waste management and controlled emissions.

SWM-CPCB

COMPLIANT DESIGN

Designed for Safe, Efficient & Environmentally Responsible Sanitary Waste Incineration



Special Note: All the features and programming of this machine is fully customizable as per your requirements.

3 Sanitary Pad Vending Machine

4G LTE IoT ENABLED SANITARY PAD VENDING MACHINE

ZESTPLUS Sanitary Pad Vending Machine ensures easy access to hygienic sanitary pads anytime, anywhere. Empowering women with dignity & care.

- ❖ Automated Sanitary Pad Vending
- ❖ IoT Monitoring System
- ❖ Dashboard Analysis
- ❖ AMC & Maintenance Support

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4 DASHBOARD & ANALYTICS CONTROL ROOM SETUP

IoT Dashboard & Analytics Control Room Setup

ZESTPLUS IoT platform enables centralized monitoring & intelligent management of all smart hygiene devices and operations through real-time data, insights and alerts.

- ❖ Real-time Monitoring
- ❖ Device Health Tracking
- ❖ Alerts & Notifications
- ❖ Predictive Maintenance
- ❖ Users & Role Management
- ❖ Secured Cloud Infrastructure
- ❖ Remote Device Control
- ❖ Multi-site Management



ABOUT ZESTPLUS

ZESTPLUS TECHNOLOGIES PVT LTD

“ZESTPLUS” aka “ZEST+” is technology driven women hygiene infrastructure company focused on developing and deploying **smart, safe and sustainable** hygiene solutions for modern institutions.

OUR MISSION

To build smart hygiene infrastructure that ensures accessibility, dignity, safety and a cleaner environment for women.

OUR VISION

To build a smart, safe & sustainable women hygiene infrastructure ecosystem across India.



OUR CERTIFICATIONS



DPIIT
#startupindia



OUR CLIENTS



ZESTPLUS GALLERY



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