

SMART RESTROOM ODOUR MONITORING SOLUTION

1. Solution Overview

The proposed Smart Restroom Odour Monitoring Solution is an advanced IoT-enabled monitoring platform designed to continuously monitor restroom odour conditions in real time and provide instant alerts and actionable insights through a centralized web and mobile dashboard.

The system helps facility management teams maintain hygiene standards, improve user experience, and ensure timely housekeeping actions through automated odour sensing and intelligent monitoring.



2. Key Features

Real-Time Odour Monitoring

- Continuous odour sensing and monitoring

- Real-time odour level visualization
- Configurable threshold settings

WiFi-Based Communication

- Wireless WiFi-enabled sensor connectivity
- Cloud-based data transmission
- Remote monitoring capability

Power Operated System

- Operating Voltage: 230V AC
- Industrial-grade power-operated system
- Suitable for continuous operation

Web & Mobile Dashboard

- Centralized monitoring dashboard
- Mobile-friendly user interface
- Live status monitoring from anywhere

Odour Level Classification

The platform displays odour levels in categorized formats such as:

- Good
- Moderate
- Medium
- High Odour Level

Trend Analysis & Historical Data

- Real-time graphical trend visualization
- Historical odour data tracking
- Daily, weekly, and monthly reports

Instant Alerts & Notifications

- Threshold-based instant alerts
- Real-time notification system

Report Download Provision

Users can generate and download reports in:

- Excel Format
- CSV Format
- PDF Format

User Management System

- Multi-user login support
- Role-based access control
- Admin and operator management

3. System Architecture



Field Level Components

- Odour Sensor Device
- WiFi Communication Module
- Power operated (230V AC)

Cloud Platform

- Secure cloud server connectivity
- Real-time data processing
- Data storage and analytics

User Access Platform

- Web Dashboard
- Mobile Dashboard
- Alert Notification Engine

4. Dashboard Functionalities

Live Monitoring Screen

- Real-time odour status
- Device online/offline status

Reports & Export

- Downloadable reports
- Date-wise filtering
- Custom report generation

Alert Management

- Real-time alert logs

5. Benefits of the Solution

- Improved restroom hygiene monitoring
- Faster housekeeping response
- Enhanced user experience
- Centralized monitoring system
- Reduced manual inspection dependency
- Smart facility management enablement

6. Technical Specifications

Parameter	Specification
Communication	WiFi
Power Supply	230V AC
Dashboard Access	Web & Mobile
Alert System	Instant Notification
Data Export	Excel, CSV, PDF
User Management	Multi-Level Access
Monitoring Type	Odour Monitoring
Data Storage	Cloud-Based

7. Proposed Deliverables

- Smart Odour Monitoring Device
- Cloud Dashboard Access
- Mobile Monitoring Access
- Alert Configuration
- User Management Setup

8. Conclusion

The Smart Restroom Odour Monitoring Solution provides an intelligent, scalable, and efficient approach for maintaining restroom hygiene standards through IoT-based real-time monitoring and analytics. The system enables proactive facility management and improves overall operational efficiency through automated alerts, centralized dashboards, and historical reporting capabilities.

9. Our Innovations Featured in News & Media



10. Our Deployments:

