

Case Study

BRITANNIA BARABANKI

Digital-Enabled ETP Operations & Compliance Support

Client: Barabanki, Uttar Pradesh

Industry: Food Manufacturing (FMCG)

Client: Britannia Industries Limited

Service Partner: Enhanced Wapp Systems India Pvt. Ltd.

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Executive Summary

The Objective

Britannia required a structured O&M partner to manage wastewater treatment operations through:

- ⌂ Process Operations
- ⌂ Preventive Maintenance
- ⌂ Compliance Support
- ⌂ Housekeeping & Sludge Management
- ⌂ Digital Monitoring & Reporting

Goal: Ensure reliable, compliant, and efficient ETP operations.

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Project Snapshot

Parameter	Details
Industry	Food Manufacturing
Location	Barabanki, UP
ETP Capacity	45 KLD
STP Capacity	175 KLD
Digital Platform	DigitalPani
Service Scope	O&M, Compliance, Monitoring & Reporting

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Business Requirements

What Britannia Needed

- Continuous ETP Operations
- Process Monitoring & Control
- Proper Chemical Dosing
- Preventive Equipment Maintenance
- Sludge Handling & Housekeeping
- Compliance Documentation Support
- Skilled Manpower Deployment
- Digital Visibility through Reports & Dashboards

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Key Challenges

Operational Risks

- ◀ Wastewater Quality Variations
- ◀ Equipment Breakdowns
- ◀ Improper Chemical Dosing
- ◀ Manual Monitoring Limitations
- ◀ Sludge Accumulation
- ◀ Compliance Documentation Gaps
- ◀ Limited Operational Visibility
- ◀ Maintenance Delays

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Comprehensive Scope of Work

End-to-End Plant Management

- ▶ Process Operations
- ▶ Monitoring & Testing
- ▶ Mechanical Operations
- ▶ Preventive Maintenance
- ▶ Sludge Handling
- ▶ Housekeeping
- ▶ Manpower Deployment
- ▶ Compliance Support
- ▶ DigitalPani Monitoring

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DigitalPani-Enabled Visibility

Smart Monitoring & Reporting

DigitalPani provided:

- ◀ Live Dashboards
- ◀ Real-Time Alerts
- ◀ Automated Reporting
- ◀ Issue Visibility
- ◀ Expert Guidance
- ◀ Performance Monitoring

Result: Faster issue detection and better operational decision-making.

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Solution Approach

Integrated Service Model

People + Process + Technology

- ◀ Skilled Operations Team
- ◀ Technical Supervision
- ◀ Preventive Maintenance
- ◀ Compliance Readiness
- ◀ Digital Monitoring & Analytics

A proactive model replacing reactive plant management.

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Implementation Methodology

Execution Framework

- ◀ Site Operation Planning
- ◀ Process Control Setup
- ◀ Daily Operations & Log Maintenance
- ◀ Equipment Monitoring & Maintenance
- ◀ Parameter Testing
- ◀ Sludge & Housekeeping Management
- ◀ Digital Monitoring & Reporting

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Value Delivered

Key Benefits

- ◀ Structured Plant Operations
- ◀ Improved Equipment Reliability
- ◀ Better Compliance Readiness
- ◀ Cleaner Plant Environment
- ◀ Enhanced Wastewater
- ◀ Management
- ◀ Faster Issue Identification
- ◀ Improved Management Visibility

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Expected Outcomes

Business Impact

- ◀ Improved ETP Reliability
- ◀ Reduced Operational Downtime
- ◀ Better Treatment Process Control
- ◀ Stronger Preventive Maintenance Practices
- ◀ Better Sludge Management
- ◀ Enhanced Compliance Support
- ◀ Faster Escalation & Resolution
- ◀ Greater Operational Transparency

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CONCLUSION

Building Smarter Wastewater Operations

This project demonstrates how combining:
**Operational Expertise + Preventive Maintenance +
Compliance Support + DigitalPani Visibility**

helps industrial facilities achieve reliable wastewater treatment, stronger compliance readiness, and sustainable operations.

Enhanced Wapp Systems India Pvt. Ltd.
Driving Digital-Enabled Water & Wastewater Management