

# OEM's ERP Solution for End-to-End e-Governance for Pollution Control Authorities



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ISO 20000-1:2018 | ISO 27001:2015  
ISO 9001:2015 | ISO 14001:2015

# Why Plan for an End-to-End e-Gov System for Pollution Control Authorities?

- 1 It gets tedious to manage and track the Departmental operations carried out in manual or offline mode
- 2 Lack of connectivity between the existing stand-alone applications further affects the overall productivity
- 3 Lack of a single Platform fails to satisfy all the requirements of project proponents as well as Department users
- 4 Unavailability of Customized Report Generation at all user levels further makes it difficult in matters of key-decision making process

# The Benefits

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- 1 This ERP system will empower the Pollution Control Board to carry out its daily work via a digital platform thereby eliminating the need of manual intervention
- 2 Offers end-to-end process flow to proponents as well as department officers
- 3 Meets all security standards to ensure the complete safety of confidential information
- 4 Removes all physical intervention thus making it a self-sufficient system for the department
- 5 Provides additional features like Randomized Inspection, File Transfer System, Office Note, and much more to make day-to-day work easy

**Check the Interesting Features this ERP Provides for Different Departments/Users.....**

# ERP Features

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## For Industry/Environmental Health Establishments

- Online Registration via Mobile Verification & Document Verification
- E-Applications for all services like Consent, Authorizations, Annual Returns
- Provision to upload all corresponding documents online
- E-Payment provision for making payment through Credit Card/Debit Card & Net Banking
- Track Submitted Application at every level
- Provision to download certificate online
- View Visit Reports & Legal Directions & provision to submit compliance

# ERP Features

## For Department Officers

- IMIS System for end-to-end processing of all applications submitted by proponents
- Seven Day Scrutiny & JVS Section
- Task Flow System with Auto Escalation
- Provision to allocate additional payment to industries
- Generate Agenda, Minutes for Consent Committees
- File Tracking System
- Legal Module
- Randomized Visit Scheduler
- Industry Directory
- Integration with accounts section
- Complaints Module
- Bank Guarantee
- Reports Section
- Training Management System
- Online CR
- Auto Certificate Generation
- Digital & E-Signature

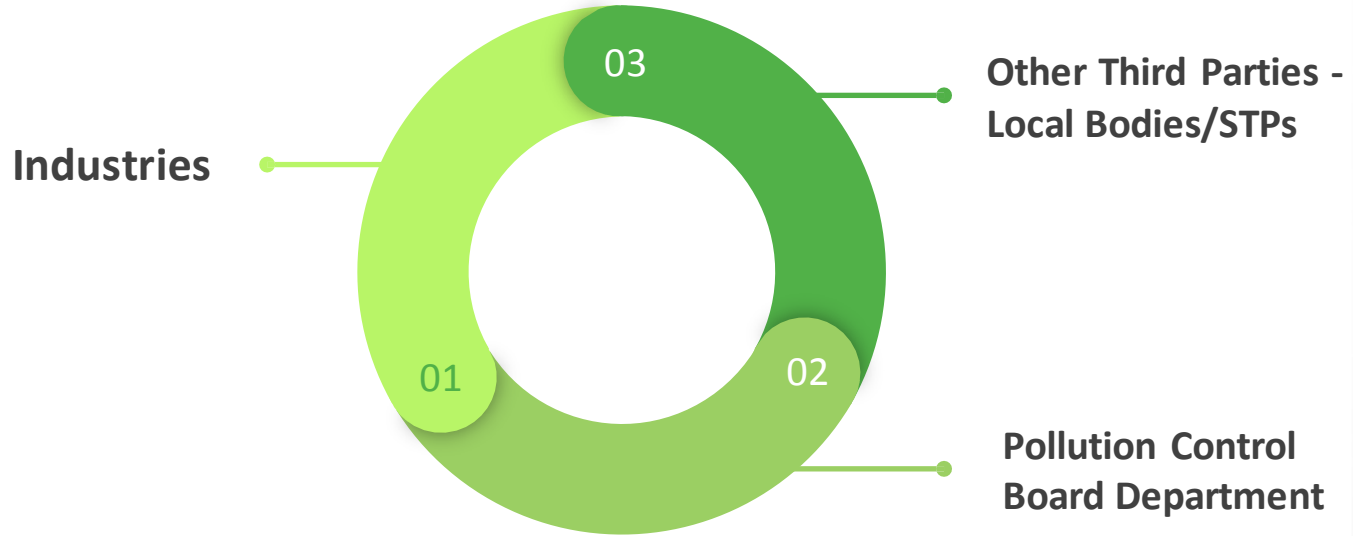
# ERP Features

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## Additional Modules / Applications

- Environment Clearance Portal
- Compliance Portal
- Solid Waste Portal for Local Bodies
- Sewage Management Portal for Local Bodies
- Hazardous Waste Manifest System
- Central Inspection System
- Helpdesk Portal
- Wetlands of Maharashtra
- Thermal Power Plant Portal
- IMIS Mobile Application for Visits

# The Beneficiaries



# Advantages & Features

- 1 Online Registration -**  
Provides a platform to industries to register themselves online and verify their registration through mobile verification and document verification thereby eliminating the need of physical verification
- 2 E-Applications -**  
Online applications for all services like consent, authorizations. This reduces the need of manual submission of applications subsequently reducing the use of paper
- 3 Document Upload -**  
A section that has the provision to upload all corresponding documents
- 4 E-payment Gateway -**  
Provides platform for making payment online thus reducing the hassle of DD payment

INDUSTRIES



# Advantages & Features

- 5 Track Application –**  
Enables applicant to track application at every stage and get notified via email & SMS on all updates
- 6 Download Certificate –**  
Once application is approved applicant can download the e-certificate from the system itself
- 7 View & Download –**  
View & Download the Inspection reports generated for a particular application
- 8 Legal Directions –**  
Track Legal Actions generated against industry and provision to submit compliance against the same
- 9 Tickets –**  
Provision to raise query to officers/helpline regarding any issue(s)

INDUSTRIES



# Advantages & Features

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DEPARTMENTS

- 1 Consent & Authorization Management System -**  
On submission of consent/authorization application by project proponent department officers can view the details of the same from this portal along with documents, payment details. The entire task flow section has been digitalized for the seamless processing of consent applications
- 2 7-day scrutiny & JVS section -**  
Department officer can send system-generated scrutiny letters for compliance which the project proponent can view and submit compliance reply accordingly. JVS Air & Effluent details are submitted from this section
- 3 Task Flow -**  
This section is for 'processing of application' which means that a concerned officer can forward the application with his/her remarks to their subordinate reporting officer based on granting authority of the application. After it generates an auto consent, a Certificate is issued which is digitally signed and transferred through blockchain
- 4 Additional Payment –**  
In case if an additional payment is needed by a department, a request can be generated from this section

# Advantages & Features

- 5 Generate Agenda -**  
Online generation of agenda, index, and minutes of meeting for placing the application in front of the committee
- 6 File Tracking System -**  
A file tracking system is available to track every file at the time of inwards and outwards and also to monitor the movement of the same. A unique tracking number gets generated for each file
- 7 Legal Actions -**  
All legal actions - be it from a warning letter to Closure directions are issued through this online system. Additionally, task flow is provided for internal processing and issuing of legal notices. Project proponent can view the legal directions issued w.r.t their unit and submit compliance w.r.t that
- 8 Visit Scheduler -**  
Randomized inspections are allocated from Central Inspection System to field officers/sub-regional officers/Regional officers based on the inspection framework and provision is made for the officers to upload the respective digitalized inspection report. Provision for submission of JVS details is also present. Additionally, an officer can initiate legal action w.r.t visit in cases where non-compliance is found during a particular inspection

# Advantages & Features

- 9 Industry Directory -**  
A single folder module that helps in viewing all the details, such as – consent / authorization / annual reports / environment statement applied along with the status for a particular industry. Also, industry- wise visits & legal actions issued are available in this section
- 10 Accounts Section -**  
This section is provided to accounts for approval of payment done by the project proponent through NEFT/RTGS. Sub-modules like payment reconciliation are also available
- 11 Complaints Module -**  
This module helps in lodging complaint(s) received in Pollution Control Board. The module also tracks complaints and manages the task flow section to distribute complaints to the concerned person/office for its redressal. Once complaints are redressed notifications are sent to concerned proponent/officers
- 12 Bank Guarantee -**  
Submission of details of bank guarantee by the project proponent and verification of same by regional Pollution Control Board office is carried out using this module

# Advantages & Features

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## Training Management System -

The training coordinator floats training for Department officers through this module. If interested, Department officers can enroll for training, and accordingly, task flow is given for approval of training programs. This helps in keeping a digital record of all the training programs and check the past training programs an officer might have attended

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## Agenda & Minutes for Committee -

For cases that fall under the purview of committees, an online system is provided for the generation of agenda followed by minutes generation. Once the minutes of a meeting are verified the same is notified to proponents through email and SMS. This option is provided for resubmission of cases also

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## Reports & Dashboard -

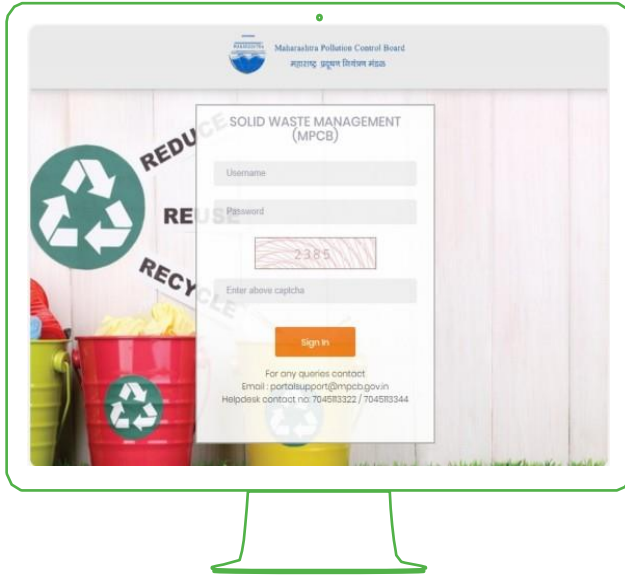
Customized reports and overall dashboard are present depending on the requirement for monitoring of applications and pendency reports at all levels

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## Online CR -

Online CRs are submitted by officers and are verified by reporting officer & reviewing officer from this system

# Implementations



## Municipal Solid Waste Portal

- This portal is developed for Municipal Councils, corporations & Nagar Panchayets who can submit solid waste generation & disposal details on a daily basis & monthly basis. This benefits the PCB to collect & monitor solid waste details on a regular manner.
- Municipal corporations & Council would be auto registered in this portal and credentials would be shared with respective bodies.
- Once Local Body submits the details, the portal would generate comparative reports on various aspects for Board officials , This will ease the process for them to take suitable steps to reduce the solid waste generation.

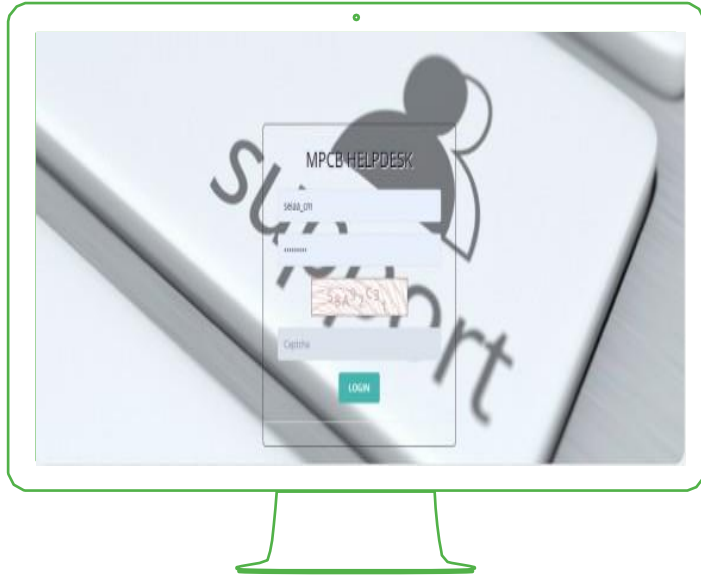
# Implementations



## Central Inspection System

- Various wings of Labour Department and Pollution Control Board were independently carrying out inspection of business and compliance thereof.
- Integration of these systems is necessary. This system enables Synchronized joint inspection & individual inspection allocation from a single system to multiple departments.

# Implementations



## Helpdesk Portal

- This portal is basically developed for internal support team who can view the details of any type of applications and provide telephonic and written support to proponents or department officers.
- Ticketing system has been made available for industries as well as department users. Based on category of issues the same is bifurcated to concerned support official.
- Make corrections or provide facility for correction as per request from project proponents.



# Implementations



## Environment Clearance Portal

- This application is developed for Environment Department which enables project proponent to apply for environment clearance applications along with online payment.
- User roles for SEAC committees & Authorities to incorporate cases in agenda based on per-defined priority.
- Online Creation of Agenda & Minutes
- Online EC certificate generation
- Tracking system & Dashboard at each level
- Email & SMS notification integration at each sections to notify proponent & Department officers accordingly

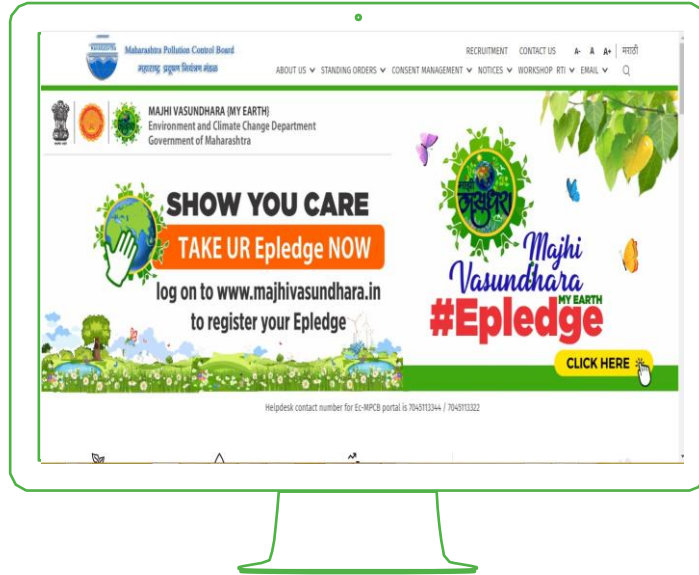
# Implementations



## Wetlands of Maharashtra

- This application is developed for Environment Department to detect all the wetlands in State of Maharashtra.
- User roles have been provided to the Talathi, Tehsildar & Collectors.
- Implementation of QGIS to pinpoint all wetland locations on Google Map.
- Provision of submission of classification form by the Talathi w.r.t each wetlands.
- Verification of classification details by Tehsildar & Collector.
- Dashboard at Talathis, Tehsildar & Collector Level.

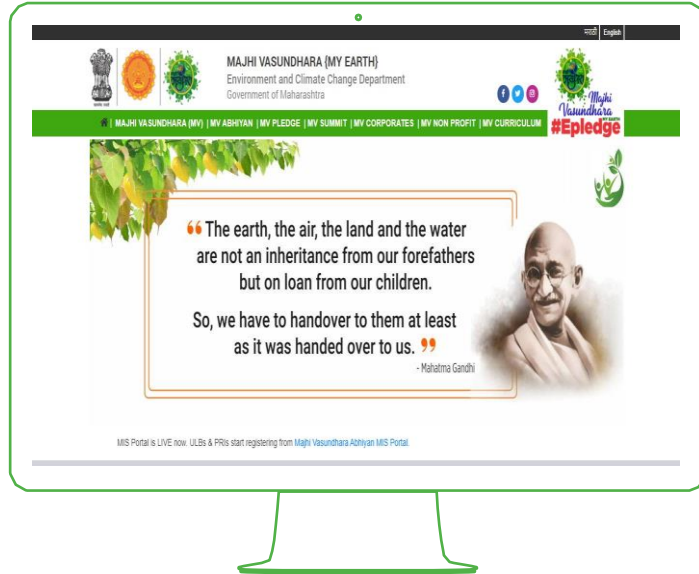
# Implementations



## Pollution Control Board Website

1. Fully functional Website is developed for Pollution Control Board.
2. Content Management System feature is provided to the department to manage the website content thereby eliminating any dependency.
3. Website is developed keeping all security points & Disability Rights in place.

# Implementations



## Majhi Vasundhara & MIS

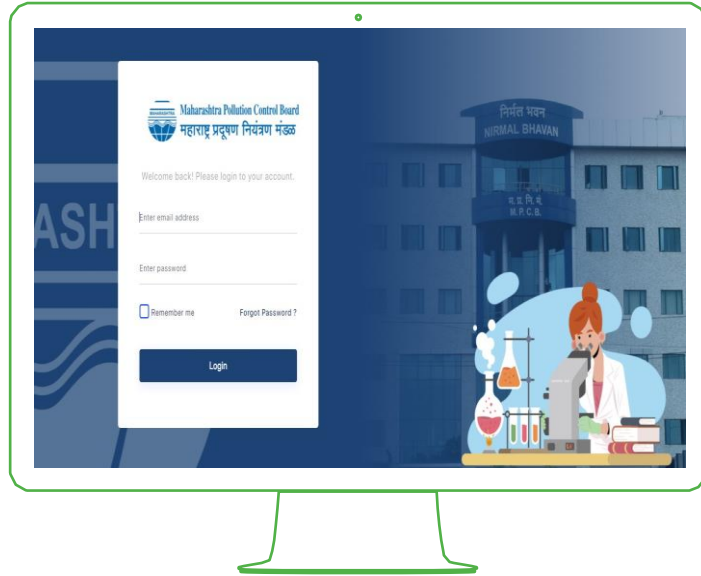
This system is developed for local Bodies to submit the achievements under their jurisdiction from the environment point of view.

Achievements will be submitted under 5 heads:

- Agni
- Jal
- Vayu
- Bhoomi
- Akash

Based on the submission, the system will auto calculate relative marking and allocate top performing Local Body.

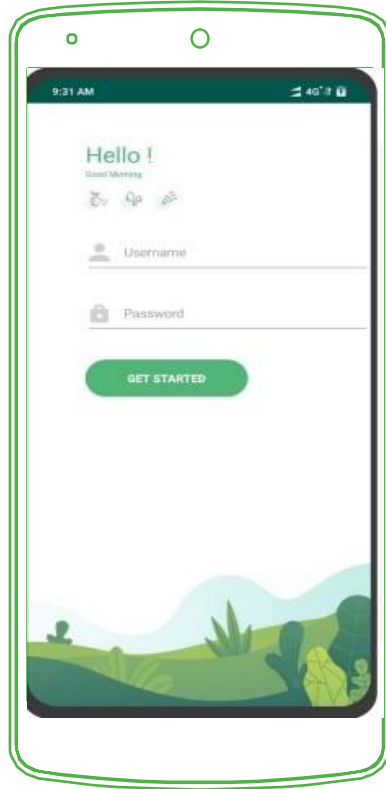
# Implementations



## Laboratory Inventory Management System

- This system is developed for Pollution Control Board Labs to calculate analysis report which are submitted by Field Officers post inspection through IMIS.
- This system is directly interrelated with IMIS system which therefore provides an end-to-end solution for Laboratory Users & Field Officers.
- This system also enables the laboratory officers to automate their day to day work like parameter allocation, sample analysis, COA generation & Scientific Calculation.
- Electronic Barcode Generation for easing the sample tracking purpose.

# Implementations



## Mobile Application for IMIS

This mobile application is introduced to all the field officers/regional officers so that at the time of inspection they can utilize the same for submission of inspection report then and there itself. Once inspection report is submitted the project proponent will receive the inspection report by means of email and sms notifications.

This application has the feature to capture the geo tagging of the inspected unit so to detect the latitude, longitude of industries all across Maharashtra. This will thereby track the location of officers and thus ensure proper inspections.

# Work-in-Progress

- ❖ IOT based Online Continuous Monitoring System.
- ❖ AI based decision making system.
- ❖ Complete IMIS on Mobile Application.