MeerutWMS Plantation Module Workflow & Description

This document describes the complete Plantation Management Workflow for MeerutWMS. The module digitizes plantation proposal management, inspection, DPR handling, approval hierarchy, execution monitoring, geo-tagged evidence collection, and plantation progress tracking.

1. Plantation Types

• Linear Plantation – Plantation along roadsides or long stretches.
• Divider Plantation – Plantation on road dividers and medians.
• Spot Plantation – Plantation at specific targeted locations.
• Open Plot & Park Plantation – Plantation in parks and open public spaces.

2. User Roles & Responsibilities

Zonal Officer: Creates plantation proposal and verifies DPR.
Nagar Ayukt: Provides administrative approvals.
Chief Engineer: Handles technical verification and team assignment.
JE/AE/XEN: Conduct inspections and execution monitoring.
System Admin: Manages masters and monitoring.

3. Workflow Overview

Zonal Officer Proposal → Nagar Ayukt Approval → Chief Engineer Assignment → JE/AE/XEN Inspection → DPR Submission → Zonal Verification → Final Nagar Ayukt Approval → Work Execution → Completion Monitoring

4. Proposal Creation by Zonal Officer

The Zonal Officer creates plantation proposals with location details, plantation type, estimated plant count, geo-coordinates, photographs, and proposed timelines.

5. Nagar Ayukt Initial Approval

Nagar Ayukt reviews the necessity, budget feasibility, and public impact of the plantation proposal. The proposal can be approved, rejected, or sent back for clarification.

6. Chief Engineer Assignment

After approval, the Chief Engineer assigns JE, AE, and XEN officers for field inspection and technical validation.

7. Field Inspection Process

The assigned team visits the site and captures geo-tagged photos of starting and ending points. Latitude and longitude are recorded along with inspection remarks and feasibility observations.

8. DPR Submission

Chief Engineer uploads DPR documents, total estimated cost, number of plants, project timeline, technical reports, and supporting PDFs.

9. Zonal Verification

The Zonal Officer verifies project cost, practicality, timeline, and plantation requirements. Revision requests can be raised if required.

10. Final Approval by Nagar Ayukt

Final approval is provided after administrative and technical review. Once approved, the project moves into execution phase.

11. Work Start Process

JE/AE/XEN teams initiate plantation work and upload geo-tagged work start photographs, coordinates, manpower details, and execution remarks.

12. Monitoring & Completion

Daily progress updates, plantation counts, maintenance status, and completion reports can be tracked within the system.

13. Important Features

- Geo-tagged Photo Verification
- DPR & PDF Management
- Timeline Tracking
- Audit Trail Logs
- Role-based Access Control
- Approval Workflow Management
- Dashboard Analytics

14. Suggested Status Flow

Workflow Statuses
Draft
Submitted
Pending Nagar Ayukt Approval
Approved by Nagar Ayukt
Inspection Assigned
Inspection Completed
DPR Submitted
Pending Zonal Verification
Revision Requested
Pending Final Approval

Approved for Execution
Work Started
Work In Progress
Completed