

INDUSTRIAL LAND MONITORING & COMPLIANCE SYSTEM

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Compliance Report: siltaraphase1

1. Executive Summary

This report presents the automated monitoring and compliance analysis for siltaraphase1 as of February 14, 2026. The analysis uses Sentinel-2 satellite imagery with AI-powered super-resolution (ESRGAN) and automated change detection algorithms.

2. Encroachment Detection Results

Total Plots Analyzed: 8

Encroachments Found: 4

Overall Utilization: 87.1%

Plot ID	Type	Severity	Area (m ²)	Util %	Confidence
SLT1-002	outside_boundary	high	979.4	110.0	0.9
SLT1-003	outside_boundary	high	1005.0	111.6	0.92
SLT1-004	vacant_plot	low	0	0	0.95
SLT1-007	outside_boundary	critical	1312.5	97.5	0.87

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4. Recommendations

1. Conduct ground-truth verification for all critical-severity encroachments.
2. Issue show-cause notices for construction outside allotted boundaries.
3. Review utilization status of vacant plots for potential reallocation.
4. Schedule quarterly satellite monitoring for high-risk areas.
5. Update PostGIS boundary records with latest survey data.