

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: 5

Overall Utilization: 81.7%

Plot ID	Type	Severity	Area (m²)	Util %	Confidence
SLT1-002	outside_boundary	high	996.0	91.7	0.81
SLT1-004	vacant_plot	high	1438.4	23.2	0.89
SLT1-006	outside_boundary	high	571.2	103.5	0.93
SLT1-007	outside_boundary	high	585.0	90.2	0.82
SLT1-008	partial_construction	medium	6150.6	54.1	0.85

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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.