

DIVINE EARTHLY: AUTONOMOUS WATER GUARDIAN

Official Grievance Report | Date: 2026-02-28

I. Location Analysis

Target Region: Silchar, Assam

Jurisdiction: Local Municipal Water Authority

II. Spectral Health Data (Satellite)

Detected NDWI Score: -0.2806

Status: Severe Organic Contamination Detected via Sentinel-2 Imagery.

III. Unified Risk Assessment

Final Unified Risk Index: 41.82/100 (Status: DISHARMONY)

IV. Recommended Engineering Interventions

- Immediate implementation of Granular Activated Carbon (GAC) Filtration.
- Emergency Chlorine Boosting at Sadarghat and Rangirkhari reservoirs.
- Automated pipeline flushing in Malugram and Tarapur stagnation zones.
- Installation of real-time IoT bypass sensors for early spectral detection.

Figure 1: Distribution Network Risk Propagation Map

