

Examples Aspect – Impact – Pollution Levels

Process / Activity	Environmental Aspect (Measured Pollution Level)	Environmental Impact	Pollution Type (Air / Water / Land)	Apply Company own criteria for Significant Aspect	Controls	Improvement Actions
Boiler operation (fuel combustion)	CO ₂ : 450 ppm, NO _x : 180 mg/Nm ³ , PM: 70 mg/Nm ³	Air pollution contributing to climate change and respiratory issues	Air Pollution		Stack emission control system, scrubbers	Shift to low-sulfur fuel, install advanced emission filters
Effluent discharge (ETP outlet)	COD: 250 mg/L, BOD: 120 mg/L, pH: 6.5–8	Water contamination affecting aquatic life and downstream users	Water Pollution		Effluent Treatment Plant (ETP)	Upgrade treatment process, continuous monitoring sensors
Solid waste disposal (landfill)	Heavy metals (Pb, Cd) detected in soil above limits	Soil contamination impacting plant growth and groundwater quality	Land Pollution		Hazardous waste handling procedures	Introduce secure landfill and waste minimization practices
Ambient air quality around facility	PM _{2.5} : 85 µg/m ³ , PM ₁₀ : 150 µg/m ³	Degraded air quality affecting nearby communities and ecosystems	Air Pollution		Air quality monitoring stations	Implement dust suppression systems and greenbelt development

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Stormwater runoff from site	Oil & grease: 12 mg/L, suspended solids high	Contamination of nearby water bodies and soil ecosystems	Water / Land Pollution		Stormwater drainage and oil separators	Install filtration and retention ponds