



## **ENVIRONMENTAL PLAN, SAFEGUARDS AND COUNTERMEASURES**

### **1. Objective**

This plan aims to ensure that Biotec Iron's industrial activities, focused on the production of pig iron, green cement, electricity and biomethane, are carried out with socio-environmental responsibility, meeting the requirements of SEMAD and other regulatory bodies.

### **2. Project Scope**

Biotec Iron's industrial plant will be established in a new location in the former Atlas Steelworks region, with a production capacity of 150,000 tons of pig iron per year. The project also includes the production of green cement, electricity, and biomethane, with a focus on reducing carbon emissions and reusing waste for energy.

### **3. Reference Guidelines**

- Federal (CONAMA, IBAMA) and State (SEMAD) Environmental Legislation
- IFC Performance Standards
- Equator Principles
- SDGs – Sustainable Development Goals

### **4. Environmental Impact Analysis and Countermeasures Plan**

- 4.1 Air Quality: Continuous monitoring and installation of filters, cyclones and enclosures to control emissions.
- 4.2 Water Resources: Use of water recirculation and reuse; rainwater and industrial effluent containment plan.
- 4.3 Soil and Waste: Installation of impermeable floors and plans for the segregation and proper disposal of solid waste.



4.4 Fauna and Flora: Rescue of fauna, recovery of native vegetation and environmental compensation in accordance with legislation.

4.5 Social Impact: Holding public hearings and implementing a community ombudsman channel.

## 5. Specific Environmental Safeguards

Potential Risk	Safeguard Applied
Soil contamination	Installation of waterproof flooring and containment basins
CO2 emissions	High-efficiency filters and continuous monitoring
Conflict with the community	Public consultation and active ombudsman channel
Water use	Recirculation and capture of alternative sources

## 6. Environmental Impact Study – EIA/RIMA

An Environmental Impact Assessment (EIA) and its corresponding Environmental Impact Report (RIMA) were conducted in accordance with SEMAD standards. The study considered location alternatives, physical-biotic and socioeconomic analyses, mitigation measures, and environmental programs to ensure the socio-environmental viability of the project.

## 7. Environmental Performance Indicators (KPIs)

- Emissions reduction:  $\geq 60\%$  below the sector average
- Waste reuse:  $\geq 90\%$
- Energy efficiency:  $\geq 80\%$
- Recirculated water:  $\geq 95\%$



## **8. Governance and Transparency**

The plan will be led by an environmental technical manager, accompanied by an IMS team and biennial external audits. Public reports will be issued annually with environmental indicators and actions implemented.