

Environmental and Social Risk Impacts and Mitigation Measures for Pronaca’s Project

IDB INVEST | ECUADOR

The Pronaca Project, financed by IDB Invest, focuses on organic growth in Ecuador, improving productivity, and modernizing production facilities, as well as strengthening internal policies and corporate efficiency. The Project has been classified as Category B, since its potential environmental and social risks and impacts are generally limited, mostly reversible, and can be mitigated through feasible and available measures.

PROJECT'S RISKS, POTENTIAL IMPACTS AND MITIGATION MEASURES IDENTIFIED BY IDB INVEST



AIR

Identification of Risks	Potential Impacts	Affected Area
Generation of odors, dust, and gases (biogas) associated with the management of animals and organic waste.	Possible odor nuisances and potential impacts on air quality for sensitive receptors.	Sensitive receptors such as households, schools, health centers, etc., located near farms and processing plants.



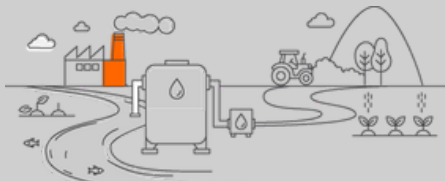
Mitigation Measures

- Identification of sensitive receptors (households, health centers, schools, etc.) and ongoing communication with stakeholders.
- Implementation of odor mitigation and control measures such as physical barriers, particle containment screens, operational adjustments based on wind direction, improvements to animal diets, and meteorological monitoring.
- Adaptive management of processes and transportation to minimize odor impacts.



WATER

Identification of Risks	Potential Impacts	Affected Area
Wastewater generation from farms and processing facilities, with potential discharge to permitted receiving bodies.	Potential impact on water quality if effluents are not treated, monitored, and discharged in accordance with applicable regulations.	Receiving bodies, rivers/streams, and downstream users located near farms and processing plants.



Mitigation Measures

- Proper treatment of industrial wastewater through efficient systems that help protect rivers, streams, soils, and community health.
- Utilization of treated water for irrigation and maintenance of farm areas, promoting water conservation.



LAND

Identification of Risks	Potential Impacts	Affected Area
Generation of organic, recyclable, common, and hazardous solid waste, as well as the use of pesticides.	Possible soil degradation or impacts on the physical, biological, and visual environment due to inadequate waste management.	• Soil perimeter of farms and processing facilities. • Adjacent water bodies (rivers/streams) potentially impacted by runoff from livestock operations.



Mitigation Measures

- Proper management of organic waste, such as dead animals, manure, and sludge, through controlled composting processes that reduce odors, prevent contamination, and enable safe reuse.
- Utilization of organic waste by transforming it into safe, high-quality fertilizer for agricultural use.



SOCIAL IMPACT

Identification of Risks	Affected Area
Heavy traffic, noise, odors, liquid discharges, community safety, expectations, and complaints associated with the operation of farms and processing plants.	Communities, workers, and businesses within the area of influence and along access routes to farms and processing plants.
Potential Impacts	Positive Impacts
• Odor impacts and possible contamination of water resources. • Potential community health and safety concerns and loss of trust if communications and grievances are not properly managed.	• Job creation and local development opportunities. • Support for local producers and agricultural associations through the purchase of corn and commodities. • Strengthening of the agri-food value chain and local businesses. • Contribution to the economic growth of communities and the country.



Mitigation Measures

- Timely identification and management of risks to protect communities, particularly against impacts from odors, water resource contamination, heavy vehicle traffic, noise, and other potential effects.
- Creation of spaces for dialogue, consultation, and participation to hear community concerns and opinions.
- Accessible channels for submitting inquiries, complaints, or grievances and receiving timely responses.