

# Environmental Management Plan

## Operation

Ramesh Auto Blocks

## Developer

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## Prepared By

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## Date

June 19, 2025

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# 1.0 Project Design Overview

Mr. Ramesh Chatrapaul Seepersaud, a Berbice-based entrepreneur, proposes to establish a concrete block manufacturing facility to meet growing demand in the regional construction industry. The project requires a \$20M GYD investment and will produce 2,000 concrete blocks weekly for residential, commercial, and infrastructure construction.

## 1.1 Site Location and Setting

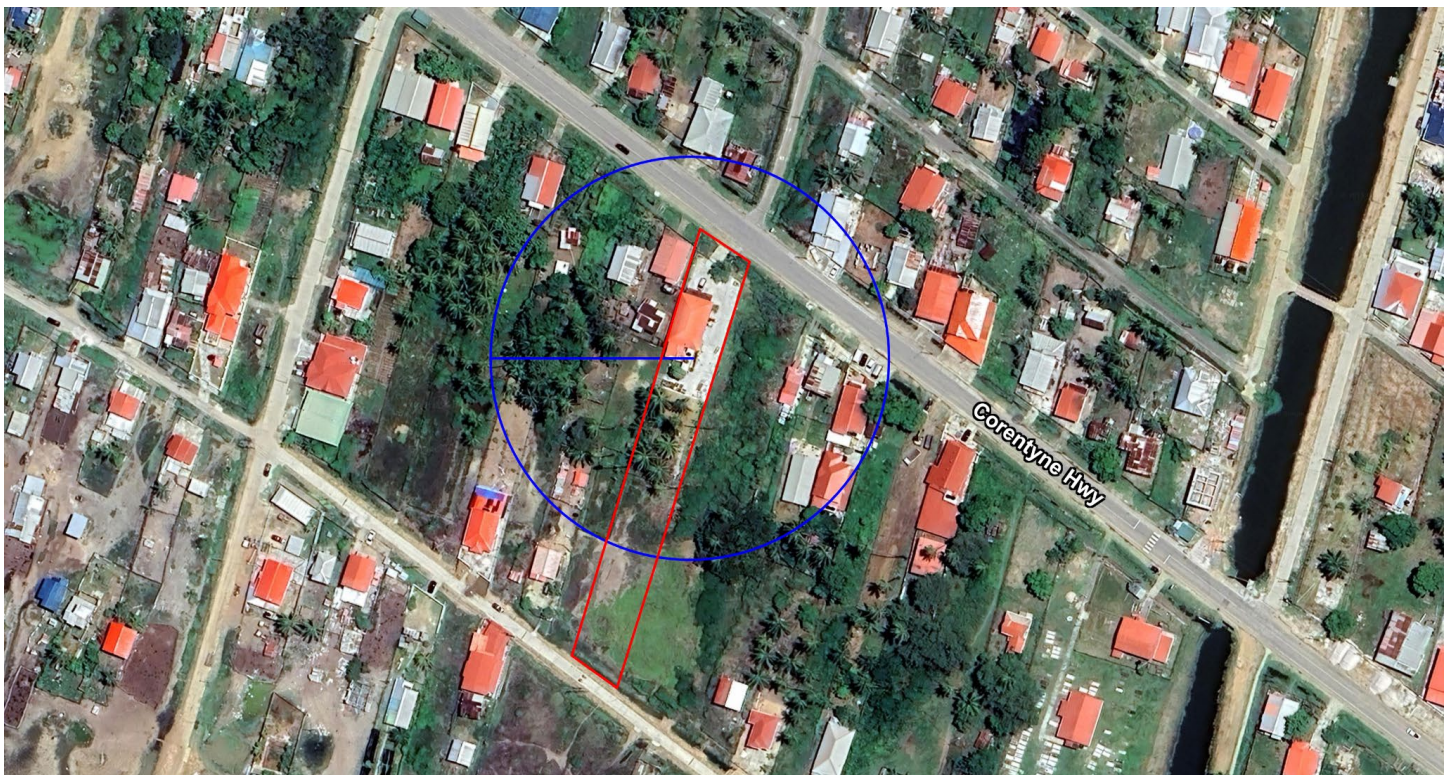
**Area:** 29,000 sq ft (0.66 acres)



**Location:** GPS coordinates 6.2217011, -57.2931113

**Site Boundaries:**

- North: Access road
- South: Vacant lot
- East: Residential house
- West: Vacant lot

The site is selected for operations and maintains appropriate distance from residential areas. No schools, hospitals, or sensitive ecosystems are nearby.



**Legend** |  50m Radius |  Perimeter

**Utilities and Infrastructure:**

- Water supply: Guyana Water Incorporated via underground lines
- Waste management: Local sewage system (liquids), NDC collection (solids)
- Security: Concrete base w/ screen mesh fencing

**Required Permits:**

- Building permit from Neighborhood Democratic Council
- Environmental permit from Environmental Protection Agency

## 1.2 Facility Design and Infrastructure

**Main Production Building:** 18-foot steel pavilion housing production area

**Environmental Containment:** 6-8-foot concrete wall w/ screen mesh extends to roof

**Power Supply:** Dedicated diesel generator w/ exhaust routing and sound dampening

## 1.3 Environmental Considerations

### Potential Impacts:

- Dust generation from materials and production
- Noise from equipment and generator
- Waste from defective blocks
- Air emissions from power generation

### Mitigation Measures:

- Comprehensive containment systems
- Limited operational hours
- Proper waste management protocols
- Environmental compliance monitoring

The flat sandy topography requires no reforestation or land reclamation. No endangered flora or fauna will be affected during site preparation.

## 1.4 Installed Equipment and Operations

### Primary Equipment:

- Automated hollow block manufacturing machine
- Diesel generator
- Material handling and storage systems
- Planned stone crushing machine for waste recycling

**Production Process:** Automated mixing and forming of cement, sand, and aggregate into hollow blocks with waste minimization design

**Operating Schedule:** 8:00 AM - 5:00 PM, Monday-Friday, approx. 3 days per week

## 1.5 Road Map

Activity	Development	Projected
Permits and Licenses Approval	Stage 1	June 2025
Purchasing of Machinery and Equipment	Stage 1	August 2025
Preparation of Site	Stage 2	August 2025
Preparation of Structures and Acquisition of Amenities needed for construction	Stage 2	August 2025
Purchasing of Material needed for construction	Stage 2	August 2025
Installation of Machinery and Equipment	Stage 3	September 2025
Furnishing and Outfitting	Stage 4	October 2025
Full Operationalization	Stage 4	November 2025

## 2.0 Mitigation and Management Strategies

### 2.1 Air Quality Management

#### Dust Sources

- Sand/Aggregate Stockpiles
- Concrete Mixers
- Conveyor Belts

#### Emission Sources

- Diesel Generator
- Vehicles (trucks, forklifts, bulldozers)

Mitigation Measure	Benefits/Effects
Regular water spraying of stockpiles and work areas	Reduces fugitive dust emissions; prevents airborne particulate dispersion
Steel pavilion and concrete wall containment system	Contains 90%+ of airborne dust within operational area; protects adjacent properties
Covered storage and controlled material transfer	Minimizes dust generation at source; reduces exposure to wind dispersion
Air quality monitoring and inspections	Ensures continued effectiveness of control measures; enables rapid response to issues
Modern, properly sized diesel generator	Reduces harmful emissions through efficient combustion; minimizes fuel consumption
Tall exhaust stack above pavilion roofline	Facilitates proper emission dispersion; reduces ground-level pollutant concentrations
Regular generator maintenance schedule	Maintains optimal performance; prevents excess emissions from equipment degradation
High-quality diesel fuel usage	Reduces particulate and gaseous emissions; improves combustion efficiency

## 2.2 Water Quality Management

### Water Contamination Sources

- Fuel (Diesel)
- Oil
- Septic System

<b>Mitigation Measure</b>	<b>Benefits/Effects</b>
Properly sized septic tank system	Prevents wastewater contamination of groundwater and surface water
Scheduled septic maintenance and pumping	Ensures system efficiency; prevents overflow and environmental contamination
Site drainage and grading systems	Prevents standing water; controls stormwater flow and quality
Contaminated runoff control measures	Protects natural water systems from polluted surface water discharge
Fuel and oil spill prevention/containment	Eliminates risk of hydrocarbon contamination of soil and water resources

## 2.3 Noise Management

### Noise Sources

- Diesel Generator
- Hollow Block Press
- Conveyor Belts
- Mixer
- Vehicles (trucks, forklifts, bulldozers)

Mitigation Measure	Benefits/Effects
Restricted operational hours (8:00 AM - 5:00 PM)	Eliminates noise during sensitive evening/night periods; protects community sleep patterns
Limited operational schedule (3 days/week)	Reduces cumulative noise exposure by 60%; minimizes long-term community impact
Preventive equipment maintenance program	Prevents excess noise from worn components; maintains equipment within acceptable noise level
Structural noise barriers (pavilion + concrete walls)	Provides 15-20 dB noise reduction for surrounding areas; creates acoustic shadow effect
Generator sound dampening (blocks and pads)	Reduces vibration transmission through ground; minimizes low-frequency noise propagation
Strategic equipment positioning within facility	Maximizes distance and barriers between noise sources and property boundaries
Coordinated delivery and transport scheduling	Concentrates vehicle noise during designated hours; prevents random noise disturbances
Operator training for noise-conscious operation	Reduces unnecessary equipment noise; promotes efficient, quiet operational practices

## 2.4 Waste Management and Recycling

### Waste Sources

- Unused/Unfit Aggregate
- Domestic waste

Mitigation Measure	Benefits/Effects
Strict quality control in production	Reduces waste generation at source; minimizes defective block production
Stone crushing equipment for waste recycling	Diverts 100% of waste blocks from landfills; creates closed-loop material system
Crushed material reintroduction program	Conserves natural aggregate resources; reduces raw material costs by 15-20%
Secure on-site waste stockpiling	Prevents waste dispersal; maintains organized waste management until processing
Regular collection of domestic waste	Maintains site cleanliness; ensures proper disposal through approved facilities
Certified hazardous material disposal	Protects environment from toxic contamination; ensures regulatory compliance
Comprehensive waste documentation	Enables tracking and optimization of waste streams; demonstrates regulatory compliance

## 2.5 Employee Safety and Health

### Health Risks

- Dust Exposure
- Chemical Exposure
- Debris

Mitigation Measure	Benefits/Effects
Comprehensive PPE program (masks, glasses, gloves)	Protects worker health from dust, debris, and chemical exposure; reduces injury risk
Clean, accessible washroom facilities	Maintains worker hygiene and health; meets basic workplace safety requirements
Fully stocked first aid kits	Enables rapid response to workplace injuries; reduces severity of incidents
Strategic fire extinguisher placement	Provides immediate fire suppression capability; protects personnel and property
Systematic equipment safety inspections	Identifies potential hazards before incidents occur; ensures equipment safety compliance
Comprehensive emergency response procedures	Enables coordinated response to emergencies; minimizes impact of incidents
Incident reporting and investigation	Identifies root causes of safety issues; prevents recurring incidents through corrective action
Emergency communication and evacuation systems	Ensures rapid emergency response; protects personnel during crisis situations
On-site spill response materials	Enables immediate containment of spills; minimizes environmental impact of incidents

### **3.0 Monitoring and Compliance**

This Environmental Management Plan will be subject to regular review and updates to ensure continued effectiveness and regulatory compliance. We are committed to working collaboratively with the Environmental Protection Agency throughout the permitting process and operational phases to maintain the highest environmental standards.

Our phased approach to environmental management demonstrates our long-term commitment to sustainability while ensuring immediate compliance with all applicable regulations. We look forward to contributing to Guyana's construction industry while maintaining our responsibility to protect the environment and surrounding community.