



**Environmental
Protection
Agency**

Ganges Street, Sophia,
Georgetown, GUYANA
Tel.: (592) 225-0506
Fax: (592) 225-5481
Email: epa@epaguyana.org
Website: <http://www.epaguyana.org>

Environmental Permit

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

Reference No.:	20231117-GSCSS
Fee:	Medium (C1) - US\$500 per year
Fees Paid:	US\$ 2500 for Five (5) years (June 2024 – May 2029)
Addressee:	Guyana Sugar Corporation Inc. (GUYSUCO) Ramp Road Riverview, Ruimveldt, Georgetown
Activity:	Storage and Packaging of Sugar, Power Generation and Fuel Storage

Guyana Sugar Corporation Inc. (GUYSUCO), hereinafter referred to as the "Permit Holder", is hereby authorized in accordance with the Environmental Protection Act, Cap 20:05, the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000, for the Storage and Packaging of Sugar, Power Generation and Fuel Storage at Ramp Road Riverview, Ruimveldt, Georgetown, hereinafter referred to as the "Project", in the manner indicated in the Application for Environmental Authorisation submitted on November 17, 2023, and subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, existing and/or forthcoming regulations made under the said Act, and/or any other applicable laws, guidelines, best practices, and standards relevant to this project.

The Permit Holder, His Servants, Agents, and/or Sub-contractors shall comply with the following Terms and Conditions:

1.0 GENERAL OPERATION

- 1.1 An application shall be made to the Agency to vary this Permit in instances where it becomes necessary to:
- change the construction, operation, structure, or layout of the facility and all associated buildings;
 - change equipment, machine, apparatus, mechanism, system, or technology serving the facility;
 - change the position and design of any outlet at the point or points of discharge of effluents; or
 - effect any other change outlined in Regulation 20(3) of the Environmental Protection (Authorisations) Regulations

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- 1.2 All employees, and third parties under the Permit's direction, shall be aware of the conditions of the Environmental Authorisation and provided with training on good environmental practices.
- 1.3 Training records shall be maintained onsite and made available for inspection by the EPA upon request.
- 1.4 Servicing and maintenance of the machinery, generator(s), and other equipment shall be conducted in accordance with the manufacturer's specifications. Summarised maintenance records shall be maintained on-site and made available for inspection by the EPA upon request.
- 1.5 The machineries, generators, and other associated equipment shall at all times be mounted or parked on impervious bases, to prevent fuel spills and leaks from entering the soil.
- 1.6 Fire prevention and control equipment shall be obtained and maintained in accordance with Guyana Fire Service Approval
- 1.7 Adhere to the **Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana** requirements.

2.0 FUEL STORAGE AND TRANSFER

- 2.1 Adopt and comply with the National SOP "Guidance for the Design, Construction, Modification, and Maintenance of Petrol Filling Stations" and any forthcoming code of practice/guidelines about the operation of fuel storage.
- 2.2 Fuel shall at all times be stored above ground and away from ignition sources. **'No Smoking'** signs shall be posted where fuel is handled or stored.
- 2.3 The Best Available Technology/ Technique (BAT) shall be employed to capture fuel lost during the unloading of fuel to storage tanks and refueling of equipment.
- 2.4 Secondary containment, drip trays, or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points.
- 2.5 Existing secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid-tight to withstand hydrostatic pressure of any contained liquid when full. A summarized inspection report shall be maintained and made available to the EPA upon inspection.
- 2.6 All secondary containment shall remain sealed and all piping must enter or exit the containment over the wall. Secondary containment shall provide total containment, and no part of the tank infrastructure (e.g., dispenser, filling hoses, and valves) shall protrude outside the containment.



- 2.7 Fuel storage tanks shall be visually inspected to verify their integrity. A summarised inspection report shall be maintained and made available to the EPA upon inspection.
- 2.8 Discharge from the secondary containment is **Strictly Prohibited**.
- 2.9 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimise corrosion of fuel tanks.
- 2.10 Maintenance and/ or repair of fittings, pipes, and hoses shall be following the manufacturer's specifications. A summarised inspection report shall be maintained and made available to the EPA upon inspection.
- 2.11 Overfill protection shall be maintained on all fuel tanks. This may include an automatic shut-off device or an audible or visible overfill alarm.
- 2.12 The safe fill level shall be identified on the gauge and set at 90% to prevent overfilling. In the event of overfilling, all discharges shall be released into the containment bund.
- 2.13 Dispensing equipment shall be designed with the Best Available Technology (BAT) to minimise spills e.g., suction, pressure or gravity systems.

3.0 POWER GENERATION

- 3.1 The inspection and maintenance report of the Cummins Diesel Engines shall be maintained. Reports shall be maintained and made available to the EPA upon inspection.
- 3.2 The following records shall be maintained for all power generation engines identified at the Project:
 - a. Megawatt thermal input
 - b. Calorific value
 - c. Fuel-oil consumption
- 3.3 The records outlined in **condition 3.2** shall be submitted to the EPA as a component of the **Annual Report**.

4.0 WATER QUALITY

- 4.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.
- 4.2 Discharge of untreated wastewater from the Project into the surrounding environment is **STRICTLY PROHIBITED**.
- 4.3 The project shall maintain the integrity of the existing waterways at all times. Discharges into the environment should be following the Guyana National Bureau



of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following are the allowable limits for the general environment and should not be exceeded:

Parameter	Maximum Concentration	Units
pH	5.0-9.0	
Biological Oxygen Demand (BOD)	<50	mg/L
Chemical Oxygen Demand (COD)	<250	mg/L
Total Dissolved Solid (TDS)	< 250	mg/L
Oil and Grease	< 10	mg/L

Water Quality monitoring shall be conducted at the discharge point **annually** in accordance with the parameters listed above by trained personnel utilizing calibrated equipment. Records of each monitoring exercise shall be maintained and results submitted to the Agency as a component of the Project's **Annual Report**.

- 4.4 Perimeter drains shall be adequately sloped and maintained to collect storm flow. All stormwater discharge shall be directed away from the washout bund.
- 4.5 Fuel/lubricants including waste oils/used oil shall not be drained from equipment onto the ground or into waterways.
- 4.6 Contaminated wastewater from greasy hands and equipment cleaning shall be collected and/or routed through the oil-water separator before discharge into the environment.

5.0 AIR QUALITY

- 5.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 5.2 Generators shall use retro-fitted emission controls to reduce particulate matter emissions to the atmosphere.
- 5.3 Generators shall be equipped with stacks that extend two (2) meters above the tallest building within a 500m radius of the development, to minimize adverse fumes/soot impacts to the contiguous areas.
- 5.4 Mechanical equipment shall be operated and maintained in accordance with the manufacturer's specifications.
- 5.5 Ambient air quality monitoring shall be conducted at the boundary of the property during normal operations to assess the levels of the following air pollutants in

accordance with the WHO Air Quality Guidelines 2005:

Air Pollutant	Averaging Time	Maximum Permissible Level
PM _{2.5}	24h	15 µg/m ³
PM ₁₀	24h	45 µg/m ³
Carbon Monoxide	8h	4 mg/m ³
Nitrogen Dioxide	8h	25 µg/m ³
Sulphur Dioxide	24h	40 µg/m ³

Air quality monitoring shall be conducted **annually** in accordance with the parameters listed above by trained personnel utilizing calibrated equipment. Records of each monitoring exercise shall be maintained and results submitted to the Agency as a component of the Project's **Annual Report**.

- 5.6 In the event of equipment malfunction or **inefficiencies** which may result in visible emissions to air or, in the event of the malfunction leads to abnormal emissions, the operator shall:
- 5.6.1 Investigate and undertake remedial action **immediately**;
 - 5.6.2 Adjust the process or activity to minimise those emissions; and
 - 5.6.3 Record the events and actions taken. This shall be submitted in the annual report.

6.0 NOISE QUALITY

- 6.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000**.
- 6.2 Noise emissions shall be monitored at the Project's boundary to determine compliance with Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment, not exceeding the Industrial Limits listed below:

Industrial Limits: 100 dB (Day-time (06:00 h-18:00 h))
80 dB (Night-time (18:00 h- 06:00 h))

Noise Quality monitoring shall be conducted **bi-annually** in accordance with the parameters listed above by trained personnel utilizing calibrated equipment. Records of each monitoring exercise shall be maintained and results submitted to the Agency as a component of the Project's **Annual Report**.

- 6.3 Significant noise-producing equipment, such as generators, shall be equipped with silencers or mufflers and/or be enclosed in suitable acoustic enclosures where necessary to reduce noise levels impacting the surrounding environment to achieve

compliance with Guyana National Bureau of Standards (GNBS) Noise Emission Guidelines.

- 6.4 Machines/ equipment capable of causing noise shall be serviced in accordance to the manufacturer's specification to ensure efficiency and reduce the level of noise produced. A summarised maintenance report shall be maintained on-site and made available for inspection by the EPA upon request.

7.0 HAZARDOUS WASTE (Waste Oil, Oily Rags, Etc.) MANAGEMENT

- 7.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulation 2000**.
- 7.2 Hazardous waste containers shall be labelled with the following:
- i. The words "**Hazardous Waste**"
 - ii. The type of waste
 - iii. Beginning accumulation date, i.e., the date when the container was first placed in the Hazardous Waste Storage Area. Should the hazardous waste container be reused, the date hazardous waste was first placed in the container shall be recorded on the container.
- 7.3 Waste oil containers shall be labelled with the following:
- i. The words "**Waste Oil** or "**Used oil**"
 - ii. Beginning accumulation date
- 7.4 Hazardous waste shall be stored in a covered, bunded area. This area shall include the following:
- i. Signage- "**Hazardous Waste Storage Area**"
 - ii. Low traffic
 - iii. No floor drains
 - iv. Bunded area shall provide 110% containment of the largest volume stored therein.
- 7.5 Hazardous waste shall be treated and/or disposed of by an EPA-authorized Hazardous Waste Disposal Facility.
- 7.6 Each transport of hazardous waste shall generate a manifest. The manifest shall contain the following:
- a) The name and address of the waste generator;
 - b) The name and description of the waste and hazardous class;
 - c) The number and type of containers;
 - d) The quantity of waste being transported; and

- e) The name and address of the facility designated to receive the waste

The transporter must sign and date the manifest upon receiving the hazardous waste from the generator. Upon completion of the transport of hazardous waste to its final destination, the hazardous waste transporter shall provide a copy of the manifest to the generator of the waste.

8.0 WASTE MANAGEMENT

- 8.1 In accordance with the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site.
- 8.2 Covered garbage receptacles shall be placed upon impervious base at strategic locations, both within and outside the facility.
- 8.3 Burning of waste is **strictly prohibited**. Solid waste shall be disposed by an EPA Authorised Waste Disposal Company.
- 8.4 Promote waste minimisation and the reuse and/or recycling of waste and other materials where practical.
- 8.5 Good housekeeping, sanitary, and hygienic practices shall be maintained at all times. The facility's drains and surroundings shall be kept free of vegetation and litter.
- 8.6 Waste collection areas shall be kept clean. Dry methods shall be used when cleaning around waste handling and disposal areas (e.g., sweeping, use of absorbents).
- 8.7 Maintain the septic tank system onsite. Septic Tanks at all times shall be accessible for cleaning and de-sludging. Septic tanks should be installed with a sand and charcoal filter bed, or other appropriate design for further treatment. This must be in accordance with the Guyana National Bureau of Standards Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems.
- 8.8 Any modification to the Septic Tank (s) must be in accordance with the Guyana National Bureau of Standards (GNBS) Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems.

9.0 COMPLIANCE MONITORING AND REPORTING

- 9.1 Notify the Environmental Protection Agency within **one (1) hour** of the occurrence of any environmental emergencies (e.g., oil spills, hazardous materials/wastes spills, sudden onset disaster, natural, technological, or human-induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood).

- 9.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 9.3 Notify the Agency in writing of any change of name or ownership of the Permit Holder's facility within **thirty (30) days** after the change occurs.
- 9.4 Notify the Agency within **twenty-one (21) days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 9.5 Maintain and submit to the Agency records of the type, composition and quantity of contaminant released (i.e., any solid, liquid, gas, odor, sound, vibration, radiation, heat, or combination of any of them).
- 9.6 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit on or before **March 31, of each year**.
- 9.7 Report to the Agency any non-compliance(s) with the Environmental Permit:
 - i. Within **twenty-four (24) hours** of the time the Holder of the Environmental Authorisation for Operation becomes aware of the non-compliance outlining the anticipated manner in which human health or the environment may be impacted.
 - ii. Within **seventy-two (72) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance, submit to the Agency a written report containing a description of the non-compliance, its cause, the period of non-compliance including exact dates and time and the anticipated time it is expected to continue if the non-compliance(s) has not been corrected.
- 9.8 Comply with any lawful directions given by the EPA from time to time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.
- 9.9 It is the responsibility of the Permit Holder to ensure the permitted activity and premises are secured and that all practicable steps necessary to prevent fires, explosions, leaks, or suspected leaks and spills at the permitted premises are taken.

10.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

- 10.1 The Permit Holder shall be liable for any material environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.2 The Permit Holder shall be liable for any serious environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.3 The Permit Holder shall be liable for any activity that causes or is likely to cause



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pollution of the environment unless all reasonable and practicable measures are taken to prevent or minimize any resulting adverse effect, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

- 10.4 The Permit Holder shall be liable for discharging, causing, or permitting the entry into the environment, of any contaminant in any amount, concentration, or level excess of that prescribed by the regulations or stipulated by this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 8.3 and 8.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.6 The Permit Holder shall not be indemnified by the Agency for any activity that causes or is likely to cause pollution to the environment, resulting from adverse effects through the discharge, any contaminant in any amount, concentration, ultra-hazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 10.7 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his Servants, and/or Agents, to the environment, biodiversity, protected species, and natural habitat with respect to any release, discharge, or spill, of contaminant fluids, oil or lubricants.
- 10.8 Should the Permit Holder contravene or be likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an Enforcement Notice in accordance with Section 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.9 Where it appears to the Agency that the Permit Holder is engaged in any activity that may pose a serious threat to natural resources or the environment or a risk of serious pollution of the environment or any damage to public health, the EPA may issue to the Permit Holder a Prohibition Notice, which may order him to immediately cease the offending activity, in accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 10.10 The EPA reserves the right to conduct regular inspections of the Permit Holder's activities as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05, and the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 10.11 The Permit Holder, His Servants and/or Agents shall at all times, allow entry to the permitted facility to any Officer designated by the EPA for the purposes of conducting inspections or any other legitimate business of the Agency. Pursuant to Section 38 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to



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assault, obstruct or hinder an authorised person in the execution of his/her duty under the said Act or its Regulations and the Permit Holder shall be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.

- 10.12 The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 10.13 **This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 10.14 This Environmental Permit is effective for the period stipulated herein; **June 2024 to May 2029.**
- 10.15 This Environmental Permit shall remain valid until **June 30, 2029**, unless otherwise suspended, cancelled, modified, or varied, in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 10.16 This Permit must be renewed by submitting a completed Renewal Application Form for Environmental Authorisation to the Agency at least six months before this Permit expires, that is, no later than **November 30, 2028.**
- 10.17 Any late submission of renewal application (s) after the specified date as stated above, may require the Permit Holder to pay, in addition to the renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2000.00) per day for every business day late, until such renewal application is submitted to the Agency**, without prejudice to any other rights of the Permit Holder in connection therewith.
- 10.18 Failure to comply with the requirements of this Permit or with applicable laws and regulations, whether existing or forthcoming, shall render the Permit Holder liable to prosecution and to penalties, inclusive of civil penalties, injunctive relief and imprisonment, as prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection Regulations and other applicable laws of Guyana.

Signed by  on behalf of the Environmental Protection Agency



Date: 2024.05.23

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I hereby accept the above terms and conditions upon which this Environmental Permit is granted and agree to abide by the Environmental Protection Act, Cap, 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, guidelines, best practices and standards made under this Act.

NAME:	RANDEY FORDYCE
DESIGNATION:	Quality Assurance Officer
SIGNATURE:	R. Fordyce
DATE:	2024-07-22



