



## **Environmental Permit (Renewed)**

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.

<b>Reference No.:</b>	<b>20161017-DDLMS</b>
<b>Fee:</b>	<b>Medium (C1) - US\$500 per year</b>
<b>Fees to be Paid:</b>	<b>US\$2500 for Five (5) years (August, 2024 – July, 2029)</b>
<b>Addressee:</b>	<b>Demerara Distillers Ltd Block "A" Plantation, Great Diamond, East Bank Demerara</b>
<b>Activity:</b>	<b>Molasses Storage</b>

Demerara Distillers Ltd, 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 the Environmental Protection (Authorisations) Regulations, 2000, for the Storage of Molasses at Water Street, Kingston, Georgetown, hereinafter referred to as the "Project", in a manner indicated in the Application for Renewal of Environmental Authorisation submitted on December 12, 2023, and subject to the terms and conditions set forth herein under the Environmental Protection Act, existing and/or forthcoming regulations, guidelines, best practices and standards are relevant to this project.

This is a Renewal of the Operation Permit, Reference No.: 20161017-DDLMS, issued on September 30, 2019, and expires on August 30, 2024.

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

### **1.0 OPERATION**

- 1.1 An application shall be made to the Agency to vary this Permit in instances where it becomes necessary to:
- i. change the construction, operation, structure, or layout of the facility and all associated buildings;
  - ii. change equipment, machine, apparatus, mechanism, system or technology serving the facility;

- iii. change the position and design of any outlet at the point or points of discharge of effluents; or
  - iv. effect any other change outlined in Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Employees and third parties under the Project's direction shall be made aware of the conditions of the Environmental Authorisation.
- 1.3 The Project shall provide training on good environmental practices. An Annual training schedule shall be maintained on-site and made available for inspection by the EPA upon request.
- 1.4 Emergency spill clean-up kits shall be maintained at the Project site for response to spills. Kits shall contain absorbent materials, drain seals, and other appropriate tools for clean-up, and shall be readily available and clearly identified at the Project.
- 1.5 Fire prevention and control equipment shall be maintained and serviced in accordance with this Guyana Fire Service Approval.
- 1.6 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:06, Laws of Guyana.**

## **2.0 MOLASSES STORAGE**

- 2.1 The molasses containment tanks shall be visually inspected to verify their integrity. A summarised inspection report shall be maintained on-site and made available for inspection by the EPA upon request.
- 2.2 Maintenance and/ or repair of fittings, pipes, and hoses shall be in accordance with the manufacturer's specifications. A summarised inspection report shall be maintained and made available to the EPA upon inspection.
- 2.3 The transfer of molasses from vessels to storage tanks and from storage tanks to trucks shall be done under strict guidance and the shut-off mechanism is activated in the event of a spill.

## **3.0 FUEL HANDLING AND STORAGE (DIESEL ONLY)**

- 3.1 A register of the quantities of fuel stored onsite shall be maintained. Registered information shall be maintained on-site and made available to the EPA upon request.
- 3.2 Fuel shall at all times be stored above-ground and away from ignition sources.



- 3.3 **‘No Smoking’** signs shall be posted where fuel is handled or stored.
- 3.4 Fuel storage barrels shall be visually inspected to verify their integrity. A summarised inspection report shall be maintained and made available to the EPA upon inspection.
- 3.5 Fuel shall be stored in a bunded area within a secondary containment to avoid spillage.
- 3.6 The Best Available Technology/ Technique (BAT) shall be employed to capture fuel lost during the unloading of fuel to storage barrels and refueling of equipment.

**4.0 AIR QUALITY**

- 4.1 Adhere to the provisions of the **Environmental Protection (Air Management) Regulations, 2000.**
- 4.2 The generators shall use retrofit emission controls to reduce particulate matter emissions to the atmosphere.
- 4.3 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.
- 4.4 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 2021:

<b>Air Pollutant</b>	<b>Averaging Time</b>	<b>Maximum Permissible Level</b>
PM <sub>2.5</sub>	24h	15 µg/m <sup>3</sup>
PM <sub>10</sub>	24h	45 µg/m <sup>3</sup>
Carbon Monoxide	24h	4 mg/m <sup>3</sup>
Nitrogen Dioxide	24h	25 µg/m <sup>3</sup>
Sulphur Dioxide	24h	40 µg/m <sup>3</sup>

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.**

- 4.5 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:

- 4.5.1 Investigate and undertake remedial action **immediately**;
- 4.5.2 Adjust the process or activity to minimise those emissions; and
- 4.5.3 Record the events and actions taken. This shall be submitted in the annual report.

## **5.0 NOISE QUALITY**

5.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000.**

5.2 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 **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.**

5.3 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.

5.4 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.

## **6.0 WATER QUALITY**

6.1 Adhere to the provisions of the **Environmental Protection (Water Management) Regulations, 2000.**

6.2 The project shall maintain the integrity of the existing waterways at all times. Discharges into the environment should be in accordance with 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:

<b>Parameter</b>	<b>Maximum Concentration</b>	<b>Units</b>
pH	5.0-9.0	
Temperature	<40	°C
Oil and Grease (O&G)	<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**.

- 6.3 Discharge of untreated liquid effluent into the surrounding waterways is **strictly prohibited**.
- 6.4 Perimeter drains shall be adequately sloped and maintained to collect storm flow.
- 6.5 Ensure the compound is well-drained via a drainage network, which should be kept free of debris and vegetation.
- 6.6 The project shall install and maintain an oil- water separator at the final discharge point.

**7.0 WASTE MANAGEMENT**

- 7.1 In accordance with the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site. Covered garbage receptacles shall be placed upon impervious base at strategic locations, both within and outside facility.
- 7.2 Burning of waste is **strictly prohibited**.
- 7.3 The Project shall promote waste minimisation and the reuse and/or recycling of waste and other materials where practical.
- 7.4 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).
- 7.5 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.
- 7.6 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.

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

8.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000.**

8.2 Hazardous waste shall not be stored in an area where it could potentially enter any waterways as a result of heavy rainfall or high winds. All hazardous waste shall be stored at least **5m** away from any drains on site.

8.3 Hazardous waste areas shall be bunded/ kerbed to contain any spilled hazardous wastes. This area shall satisfy the following requirements:

- i. Low traffic
- ii. No floor drains
- iii. The bunded area shall provide 110% containment of the largest volume stored therein.

8.4 The Hazardous Waste Storage areas shall be clearly labelled with the following warning signs:

- i. “Hazardous Waste Storage Area”
- ii. Danger- “Authorized Personnel Only”
- iii. No Smoking

8.5 Hazardous waste containers shall be labelled with the following:

- i. The words “**Hazardous Waste**”
- ii. The type of waste
- iii. Beginning accumulation date- 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.

8.6 Hazardous waste storage containers shall remain closed during storage, except when it is necessary to add or remove waste.

8.7 Hazardous waste storage containers shall be inspected weekly for signs of leakage, deterioration, or corrosion and damaged containers **must be** replaced **immediately**. A summarised inspection report shall be compiled and made available for inspection by the EPA upon request.

8.8 Hazardous waste shall be treated and/or disposed of by an EPA authorised Hazardous Waste Disposal Facility.

8.9 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.

## **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 the 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.

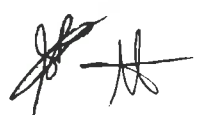
10.3 The Permit Holder shall be liable for any activity that causes or is likely to cause pollution of the environment unless all reasonable and practicable measures are taken to prevent or minimize any resulting adverse effect, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws 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, ultrahazardous 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,



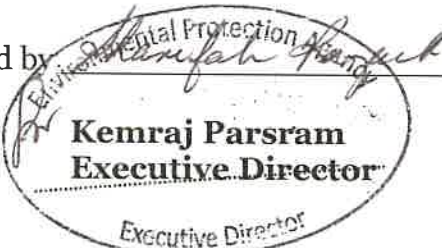


discharge, or spill, of contaminant fluids, oil or lubricants.

- 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 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 (Renewed) is not the final consent; all relevant Permissions shall be obtained from other regulatory bodies for continued operation.**
- 10.14 This Environmental Permit (Renewed) is effective for the period stipulated herein; **August 2024 to July 2029.**
- 10.15 This Environmental Permit (Renewed) shall remain valid until **July 31, 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 Application Form for Renewal of Environmental Authorisation to the Agency at least six months before this Permit expires, that is, no later than **January 31, 2029.**




- 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 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

**Kemraj Parsram**  
**Executive Director**

Date: 2024-08-30

**I hereby accept the above terms and conditions upon which this Environmental Permit (Renewed) 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.**

<b>NAME:</b>	SHARON SUE - HANG
<b>DESIGNATION:</b>	DIRECTOR - TECHNICAL SERVICES
<b>SIGNATURE:</b>	
<b>DATE:</b>	2024/09/13

