



**Environmental  
Protection  
Agency**

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## **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**

<b>Reference No.:</b>	<b>20230414-DTSTG</b>
<b>Fee:</b>	<b>Medium (C1), i.e., US\$ 500 per year</b>
<b>Fee Paid:</b>	<b>US \$ 2500 for Five (5) year (January, 2024 – December, 2028)</b>
<b>Addressee:</b>	<b>Mr. Latchman Singh Manager Berbice Onshore Support Services Inc. Parcel 279 Block XXIX Garden of Eden East Bank Demerara</b>
<b>Activity:</b>	<b>Chemical Storage (Class G Cement, Barite, and Sodium Bromide) and Fuel Storage for Power Generation.</b>

Berbice Onshore Support Services Inc., hereinafter referred to as the “Permit Holder,” is hereby authorised in accordance with the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, for Chemical Storage (Class G Cement, Barite, and Sodium Bromide) and Fuel Storage for Power Generation at Parcel 279 Block XXIX, Garden of Eden, East Bank Demerara, hereinafter referred to as the “Project,” in a manner indicated in the Application for Environmental Authorisation submitted on May 04, 2023, and subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, any existing or forthcoming Regulations made under the said Act, and/or any 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 for Operation:**

### **1.0 OPERATIONS**

- 1.1 Make an application 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;

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- 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 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Fire prevention and control equipment shall be maintained at the Project in accordance with Guyana Fire Service Approval.
- 1.3 Employees and third parties under the Project's direction shall be made aware of the conditions of the Environmental Authorisation.
- 1.4 All employees involved in the transportation and storage of Oil and Gas Chemicals shall be trained on Hazardous Material Communication and Emergency Preparedness Response. Training reports shall be maintained and made available for inspection by the EPA upon request.
- 1.5 **The Permit Holder shall submit to the Agency upon receipt, Central Housing and Planning Authority (CH&PA) approval for the Storage of Barite, Cement, and Sodium Bromide.**
- 1.6 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.**
- 1.7 Adhere to the **Pesticides and Toxic Chemicals Control Act 2000.**

**2.0 STORAGE OF BARITE, CEMENT AND SODIUM BROMIDE**

- 2.1 The Permit Holder is permitted to store the below-listed oil and gas production chemicals **ONLY**:
- i. Barite
  - ii. Class G Cement
  - iii. Sodium Bromide
- 2.2 A register of the quantities of chemicals stored at the Project shall be established and maintained. Registered information shall be maintained on-site and made available for inspection by the EPA upon request.
- 2.3 Chemical storage areas shall be clearly labeled with **"Danger, Chemical Storage Area- Authorized Personnel Only"** where applicable as a spill control measure.
- 2.4 Chemicals shall be stored in accordance with the manufacturer's directions or Safety Data Sheet instructions.

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- 2.5 Safety Data Sheets for all chemicals shall be readily available and easily accessible at all times in chemical storage areas.
- 2.6 Chemical storage packages shall be inspected for signs of leakage and damaged containers **must be replaced immediately**. Inspection reports shall be maintained on-site and made available to the EPA upon request.
- 2.7 Chemicals **shall not** be stored on damaged or inadequately secured racking or on damaged pallets to minimize the risk of spills.
- 2.8 Chemicals stored in ton bags and totes shall:
- Be protected from UV rays;
  - Be covered to prevent exposure to dirt, dust, and moisture; and
  - Do not hang over the side of pallets used for stacking.
- 2.9 Chemical containers shall be clearly labelled in accordance with the Globally Harmonized System of Classification and Labelling. The following must be evident:
- Signal Word
  - GHS Symbols - (Hazard Pictograms)
  - Manufacturer Information
  - Precautionary Statements/First Aid
  - Hazard Statements
  - Product Name or Identifiers
- 2.10 Emergency spill clean-up kits shall be maintained 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.

### **3.0 AIR QUALITY MANAGEMENT**

- 3.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 3.2 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>	<b>Type of Monitoring</b>	<b>Frequency of Monitoring</b>
Carbon Monoxide	24 h	4 mg/m <sup>3</sup>	Ambient	Annual
Nitrogen Dioxide	24 h	25 µg/m <sup>3</sup>	Ambient	Annual
Sulfur Dioxide	24 h	40 µg/m <sup>3</sup>	Ambient	Annual

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PM <sub>2.5</sub>	24 h	15 µg/m <sup>3</sup>	Ambient	Annual
PM <sub>10</sub>	24 h	45 µg/m <sup>3</sup>	Ambient	Annual

Air Quality monitoring shall be conducted **annually** in accordance with the parameters listed above by trained personnel utilizing calibrated equipment. Records shall be maintained and submitted to the EPA as a component of the **Annual Report**.

3.3 Particulate matter and dust suppression methods shall be maintained around the project site:

- 3.3.1 Erecting dust screens/fences to control particulate matter/dust emissions;
- 3.3.2 Paving and maintaining wet suppression practices on driveways.

#### **4.0 NOISE MANAGEMENT**

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

4.2 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 **commercial limits** listed below:

**Commercial Limits: 80 dB** (Day-time (06:00 h -18:00 h))  
**65 dB** (Night- time (18:00 h - 06:00 h))

Noise monitoring shall be conducted **annually** and records shall be maintained and submitted to the Agency as a component of the **Annual Report**.

4.3 All equipment and machinery shall be serviced in accordance with the manufacturer's specifications to ensure efficiency and reduce the level of noise produced. A summarised maintenance report shall be maintained on-site and made available to the EPA upon request.

4.4 All equipment and machinery shall be placed upon foundations properly designed to ensure effective damping of vibrations.

4.5 All significant noise-producing equipment, such as generators, shall be equipped with appropriate silencers or mufflers and/or are 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) requirement.

## **5.0 FUEL HANDLING AND STORAGE**

- 5.1 A register of the types and quantities of fuel and associated hazardous materials stored onsite shall be established and maintained by **December 31, 2023**. Records shall be made available for inspection by the EPA upon request.
- 5.2 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.

### **Secondary Containment**

- 5.3 Existing secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid-tight to withstand the hydrostatic pressure of any contained liquid when full. A summarized inspection report shall be maintained and available for inspection by the EPA upon request.
- 5.4 All secondary containment shall remain sealed, where existing piping enters or exit the containment through the wall. This area shall be sealed to provide total containment. No part of the tank infrastructure (e.g., dispenser, filling hoses, and valves) shall protrude outside the containment.
- 5.5 A monthly monitoring system shall be established to allow for early detection and repairs needed for the secondary containment and tank infrastructure.
- 5.6 Discharge from the secondary containment is **Strictly Prohibited**.
- 5.7 All effluent from secondary containments at the Project shall flow through the oil-water separator and shall be in accordance with the Guyana National Bureau of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*.

## **6.0 WATER QUALITY**

- 6.1 Adhere to the provisions of **the Environmental Protection (Water Quality) Regulations, 2000**.
- 6.2 Discharge of untreated wastewater from the Project into the environment is **strictly prohibited**.



- 6.3 Chemical spills occurring during the handling and loading of chemicals **shall be** immediately cleaned as guided by the respective Safety Data Sheet and disposed of at an EPA-authorised disposal facility.

## **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 bases at strategic locations, both within and outside the facility.
- 7.2 Burning of waste is **strictly prohibited**. All solid waste shall be disposed of by an EPA Authorised Waste Disposal Company.
- 7.3 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).
- 7.4 The Permit Holder shall construct and maintain a septic tank system on site 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*:
- i) The septic tank shall not be located within 1.5 meters of a building or property boundary;
  - ii) septic tanks shall be installed with a sand and charcoal filter bed or other appropriate design for further treatment; and
  - iii) shall be accessible for cleaning and de-sludging.
- 7.5 Any modification to the Septic tank shall 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*.
- 7.6 Cleaning and de-sludging of the septic tank shall be done by an EPA-authorised waste management company.

## **8.0 COMPLIANCE MONITORING AND REPORTING**

- 8.1 Notify the Environmental Protection Agency **within one (1) hour** of the occurrence of any environmental emergencies (e.g., oil spills, biohazardous materials/wastes spill, 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).
- 8.2 Monitor the implementation of the conditions of this Permit, insofar as they involve

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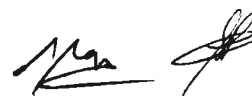
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adherence by your employees and all third parties under your direction.

- 8.3 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.
- 8.4 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.
- 8.5 Maintain and submit to the Agency records of the type, composition, and quantity of contaminant released (i.e., any solid, liquid, gas, odour, sound, vibration, radiation, heat, or combination of any of them).
- 8.6 Submit an **Annual Report** to the EPA on your compliance with this Permit on or before **March 31 of each year**.
- 8.7 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 Permit 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.
- 8.8 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.
- 8.9 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.

**9.0 INSTITUTIONAL AUTHORITY/ LIABILITIES**

- 9.1 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.
- 9.2 The Permit Holder shall be liable for any serious environmental harm caused by



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polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

- 9.3 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.
- 9.4 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 in 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.
- 9.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 9.3 and 9.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 9.6 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 of 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.
- 9.7 The Permit Holder shall be liable for 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.
- 9.8 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.
- 9.9 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.
- 9.10 The EPA reserves the right to conduct regular inspections of the Permit Holder's construction activities as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05, the Environmental Protection



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- 9.11 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 offense 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.
- 9.12 The EPA has the right to modify, cancel, or suspend this Permit for breach of any of the terms and conditions contained herein.
- 9.13 **This Environmental Permit is not the final consent; all relevant Permits should be obtained from other regulatory bodies for continued operation.**
- 9.14 This Environmental Permit is effective for the period stipulated herein; **January 2024 to December 2028.**
- 9.15 This Environmental Permit shall remain valid until **December 31, 2028**, 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.
- 9.16 This Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorization* to the Agency at least six months before this Permit expires, that is, no later than **June 30, 2028.**
- 9.17 Any late submission of a renewal application 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.
- 9.18 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.

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Signed by  on behalf of the Environmental Protection Agency.  
**Kemraj Parsram**  
**Executive Director**

Date 2024.01/18

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, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, guidelines, best practices and standards made under this Act.

NAME:	Latchman Singh.
DATE:	25/01/2024.
SIGNATURE:	
DESIGNATION:	Ops Manager