



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)

Reference No.:	20220222-FUGBC
Fee:	Small (C1) - US\$100 per year
Fee paid:	US\$500: Five (5) years (December 2022 - November 2027)
Address:	Holda Poonai Bursar University of Guyana (Turkeyen Campus) Turkeyen Greater Georgetown Region #6
Activity:	Operation of a Fuel Storage Facility

University of Guyana, hereinafter referred to as the “Permit Holder”, is hereby authorised by the Environmental Protection Agency, hereinafter referred to as the “Agency”, in accordance with the Environmental Protection Act, Cap.20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to store fuel at Lots 11-14 Public Road, Tain, Corentyne, Berbice Region #6, hereinafter referred to as the “Project”, in a manner indicated in the Application submitted on February 22, 2022, 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 applicable laws, guidelines, best practices and standards relevant to this project.

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

1.0 GENERAL

- 1.1 Make an application to the Agency to vary this Environmental 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. Affect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Submit to the Agency an approved site plan from Central Housing & Planning Authority (CH&PA), by **March 31, 2023**.
- 1.3 Submit to the Agency within **three (3) months** of receipt of this Permit, an **Emergency Preparedness Plan** for approval. This Plan shall be communicated to employees, and third parties under your direction and include, but not be limited to:
- a. Accident Prevention Procedures;
 - b. First Person Response;
 - c. Notification Procedures;
 - d. Location of clean-up equipment;
 - e. An analysis of potential accidents and response;
 - f. Material safety data sheet for all materials which could be spilled; and
 - g. An Incident Clean-up Plan.
- 1.4 A clear sign outlining spill clean-up procedures and emergency contact numbers shall be prominently displayed at the fuel storage facility at all times.
- 1.5 Guyana Fire Service Approval shall be maintained annually and submitted as a component of the Annual Report.
- 1.5.1 The Project shall maintain fire prevention and control equipment in accordance with the Guyana Fire Service Approval.
- 1.6 Strictly adhere to the requirements of the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.
- 1.7 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental practices. Prepare and maintain a training log for employees which shall be submitted to the Agency upon request.
- 1.8 Utilise the land in accordance with the approved site plan, all specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised.
- 1.9 Practice the use of caution signs to warn against potential hazards or to caution against unsafe practices.
- 1.10 Adhere to the Drainage & Irrigation Laws of Guyana. Cap.64:03.



- 1.10.1 Maintain an adequate drainage system at the facility and ensure that the land is levelled and appropriately built up to avoid floods and contamination of the receiving waters; and
- 1.10.2 Maintain a perimeter drain, which shall be adequately sloped to collect storm flow.
- 1.11 Containment bunds shall remain sealed and all piping must enter or exit the bund over the wall. Bunds shall provide total containment, and no part of the tank infrastructure (e.g., dispenser, filling hoses and valves) shall protrude outside the bund.
- 1.12 Maintenance and/or repair of fittings, pipes and hoses shall be in accordance with manufacturer's specifications.

2.0 FUEL HANDLING AND STORAGE

- 2.1 A register of the quantities of fuel stored onsite shall be established and maintained. A summary of the registered information shall be submitted to the Agency as a component of the Annual Report.
- 2.2 Store all fuel away from ignition sources and have 'No Smoking' signs posted where fuel is handled or stored.
- 2.3 Secondary containment, drip trays or other overflow and drip containment measures shall be installed/acquired and maintained at connection points or other possible overflow points.
- 2.4 The facility must be equipped with a dip stick as an overfill protection.
- 2.5 Fuel storage tanks shall be visually inspected to verify their integrity regularly. Inspection reports shall be kept and provided to the Agency upon request.

3.0 ABOVEGROUND STORAGE TANKS (AST)

- 3.1 Aboveground storage tanks shall be located in a bund with an impervious base to reduce the risk of groundwater and land contamination.
 - 3.1.1 The containment wall for areas with solitary tanks shall have the capacity to provide 110% containment of the fuel tank.
- 3.2 Routinely monitor and maintain aboveground storage tanks to prevent leaks. Areas to inspect include tank foundation, connections, coatings, tank walls, and piping systems.

- 3.3 Ensure a distance of at least 100 meters between the storage areas and waterways or areas prone to flooding.
- 3.4 Construct and maintain an impervious base under the ASTs so to reduce the risk of groundwater and land contamination.
- 3.5 Construct a containment bund around the ASTs. Bunds around areas with multiple tanks shall have the capacity to provide at least 110% containment of the largest tank.
- 3.6 Protective wrapping and/or coats must be continuously applied to buried piping to prevent corrosion, and periodically tested for structural integrity.
- 3.7 Routinely monitor and maintain ASTs to prevent leaks. Areas to inspect include tank foundation, connections, coatings, tank walls, and piping systems.

4.0 WATER AND SOIL QUALITY MANAGEMENT

- 4.1 Strictly adhere to the provisions of the **Environmental Protection (Water Quality) Regulation, 2000**.
- 4.2 Install and maintain an oil-water separator on the storage facility through which all effluent must pass through before the final discharge. The oil-water separator shall be installed by a licensed contractor **by March 31, 2023**.
- 4.3 Pipes from the pump shall be installed over the secondary containment and discharged directly into the oil-water separator.
- 4.4 Maintain the integrity of the existing waterways at all times. Discharges into the environment shall 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 this type of project and shall be not be exceeded:
 - i. Total Suspended Solid (TSS) < 100 mg/L;
 - ii. Oil and Grease < 20 mg/L; and
 - iii. Total Dissolved Solid (TDS) < 40 mg/L.

Tests shall be conducted bi-annually on samples taken from the oil-water separator and the results shall be submitted to the Agency as a component of the Annual Report.

- 4.5 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used at the facility. Store all oils, fuel, paints and chemicals in a designated area, away from all waterways and drainage channels.
- 4.6 Conduct equipment refueling, maintenance and placement on an impervious base to



prevent fuel spills/leaks. Oil spills shall be cleaned-up by the best available technology (BAT) to prevent runoff into any watercourse within the project's area of influence.

- 4.7 Do not discharge waste water effluents directly into receiving waters/drainage without prior treatment.

5.0 NOISE ABATEMENT AND AIR QUALITY MANAGEMENT

- 5.1 Strictly adhere to the provisions of the **Environmental Protection (Air Quality) Regulations 2000 and the Environmental Protection (Noise Management) Regulations, 2000.**
- 5.2 Handle and store liquid fuel in such a manner so as to prevent the emission of offensive odors to the air outside the property boundary.
- 5.3 Promptly monitor any malfunction or breakdown leading to abnormal emissions. Adjust process until normal operations can be restored.
- 5.4 Comply with the *Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment*. Sound levels from noise-making devices shall be not exceed the limits below, at a distance of 15 meters (50ft) from the source or property boundary, whichever is closer.

Commercial Limits: **80 dB** during the day-time (06:00 h -18:00 h)
75 dB during the night-time (18:00 h - 06:00 h)

- 5.5 All sound-making devices, such as generators, shall be suitably enclosed and constructed with materials of good insulation properties (e.g., hollow concrete blocks, insulation boards, solid clay bricks, etc.) and equipped with silencers or mufflers to reduce the noise level.
- 5.6 Exhaust stacks of the generator(s) shall be at least **two (2) meters** above the generator house or the tallest building nearby, to minimise adverse fumes/soot impacts to the contiguous areas.
- 5.7 Place all equipment on foundation properly designed to ensure effective damping of vibration.

6.0 WASTE MANAGEMENT

- 6.1 In accordance to the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site; covered garbage receptacles shall be placed at strategic locations at the facility. Waste shall be collected and disposed at an approved waste disposal facility.

- 6.2 Maintain a septic tank system on site. The septic tank shall not be located within 1.5 meters of a building or property boundary and shall be accessible for cleaning and desludging. Any modification to the septic tank 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"*.
- 6.3 Burning of waste is **strictly prohibited**.
- 6.4 Utilise the best practicable means of handling, storing and disposing of all waste materials at all times.

7.0 FUEL, WASTE OIL AND HAZARDOUS WASTE / MATERIAL MANAGEMENT

- 7.1 Strictly adhere to the provisions of the **Environmental Protection (Hazardous Wastes Management) Regulations 2000**.
- 7.2 Emergency spill cleanup kits shall be acquired **within three (3) months** of receipt of the Permit, for response to potential spills. Emergency spill cleanup kits shall be readily available, accessible, and maintained at the Project Site. Kits shall contain absorbent materials, drain seals, and other appropriate tools for clean-up of potential spills.
- 7.3 Waste oil recovered from oil-water separator or from servicing of generators shall be stored in a covered, bunded area to minimize adverse impacts to the environment in the event of a spillage. The bunded area shall be clearly labeled and have the capacity to provide 110% containment of the total volume of waste oils stored.
- 7.4 Store any contaminated fuel in closed leak proof containers and label **"slop tanks"** or **"waste fuel"**.
- 7.5 Store all fuel waste above ground level in a bunded area to allow easy maintenance and leak detection.
- 7.6 Oil/fuel contaminated absorbent materials shall be appropriately stored and disposed of by double wrapping in heavy duty garbage bags. All contaminated absorbent materials shall be treated by an Agency approved Hazardous Waste Treatment Facility prior to disposal at an Agency approved location.
- 7.7 Refrain from draining fuel/lubricants including waste oils of any quantity from equipment onto the ground or into waterways.
- 7.8 Store all fuel away from ignition sources and have **'No Smoking'** signs posted where fuel is handled or stored.

- 7.9 Refrain from draining fuel or lubricants including waste oils of any quantity from equipment onto the ground or into waterways.

8.0 COMPLIANCE, MONITORING AND REPORTING

- 10.1 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).
- 10.2 All near misses, spills and unwanted/accidental discharges, **amounting to less than imperial five (5) gallons**, must be recorded and reported to the Agency as a component of the Annual Report as required in Condition 10.7.
- 10.3 Discharge of contaminants amounting to **five (5) imperial gallons or more** must be reported to the Agency by submitting an "Incident Notification Form for Spills in Onshore Operations" using the most recent template provided by the Agency, within **forty-eight (48) hours** of the incident. A follow-up incident notification form shall be submitted within **seventy-two (72) hours** of the submission of the initial notification form (a total of five days after the discharge of contaminants).
- 10.4 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.
- 10.5 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.
- 10.6 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, heat or combination of any of them).
- 10.7 Submit **Annual Reports** to the Agency on your compliance with this Permit on or before **March 31**, each year.
- 10.8 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 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.

- 10.9 Comply with any lawful directions given by the Agency from time-to-time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.

11.0 INSTITUTIONAL RESPONSIBILITY \LIABILITIES

- 11.1. 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.
- 11.2. 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.
- 11.3. 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.
- 11.4. 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.
- 11.5. The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 11.3 and 11.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 11.6. 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.
- 11.7. 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.

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- 11.9. 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 Agency 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.
- 11.10. The Agency 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, the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 11.11. The Permit Holder, His Servants and/or Agents shall at all times, allow entry to the permitted facility to any Officer designated by the Agency 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.
- 11.12. The Agency has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 11.13. **This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 11.14. This Environmental Permit is effective for the period stipulated herein, **(December 2022 - November 2027)**.
- 11.15. This Environmental Permit shall remain valid until **November 30, 2027**, 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.
- 11.16. This Permit must be renewed by submitting a completed Application form for Renewal of Environmental Authorisation to the Agency at least **six (6) months** before this Permit expires, that is, no later than **May 31, 2027**.
- 11.17. 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.

- 11.18. 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
Agency.



Kemraj Parsram
Executive Director

on behalf of the Environmental Protection

Date

2022.12.09

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

NAME	SANASHA INNISS
DESIGNATION	OCCUPATIONAL HEALTH & SAFETY OFFICER
SIGNATURE	
DATE	January 13, 2023

