



**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.:	20230609-FFPSS
Fee:	Medium (C1) - US\$500 per year
Fee Paid:	US\$1500 for Three (3) years (January 2024 – December 2026)
Addressee:	Mr. George Linder Country Manager Friedlander (Guyana) Inc. 1298/1299 Spurwing Drive South Ruimveldt Park Georgetown
Activity:	Operation of a Workshop inclusive of Spray Painting, Sandblasting, and Hydrotesting of Piping, Structures & Subsea Equipment
Varied Activity:	Installation of a Fuel Storage Tank

Friedlander (Guyana) Inc., hereinafter referred to as the “Permit Holder,” is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to Operate a Workshop inclusive of Spray Painting, Sandblasting, and Hydrotesting of Piping, Structures & Subsea Equipment at Plot 7, Tract Gil2 and AM1 Rome, East Bank Demerara, hereinafter referred to as the “Project,” in a manner indicated in the Application for Environmental Authorisation submitted on June 09, 2023, and subject to the terms and conditions set forth herein under the Environmental Protection Act, and in any existing or forthcoming regulations made under the said Act and/or any applicable laws, guidelines, best practices, and standards relevant to this project.

This is a Variance of Environmental Permit Reference No.: 20230609-FFPSS, issued on January 30, 2024, and expires on December 31, 2026.

Terms and Conditions for Operation to be adhered to by Permit Holder, His Servants, Agents and/ or Sub-Contractors:

1.0 OPERATIONS

- 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 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 A register of the quantities of chemicals stored onsite shall be established and maintained. Registered information shall be maintained on-site and made available to the EPA upon request.
- 1.3 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 identified at the Project.
- 1.4 The Permit holder shall establish and submit to the EPA an **Emergency Response Plan** by **February 08, 2024**.
- 1.5 Fire prevention and control equipment shall be maintained in accordance with this **Guyana Fire Service Approval**.
- 1.6 Adhere to the requirements of **the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana**.

2.0 OPERATION OF A WORKSHOP

- 2.1 Welding, fabrication, and other maintenance activities shall, at all times, be conducted within the confines of the workshop.
- 2.2 Operation and maintenance of machines, equipment, and tools used at the workshop shall be conducted in accordance with the manufacturer's specifications. Summarised maintenance records shall be maintained and submitted to the EPA upon request.
- 2.3 The Best Available Technology (BAT) shall be implemented to remove vapors/fumes from the workshop during welding and fabrication works.
- 2.4 Welding gas cylinders shall be stored and managed according to the supplier's recommendations.
- 2.5 Engine oil, grease, and other chemicals used at the workshop shall be stored within secondary containment (bundled area) to minimize the spread/ release of spillage



from the storage area.

- 2.6 All chemicals used at the workshop shall be stored in accordance with the Safety Data Sheets (SDS). SDS shall be readily available and easily accessible.
- 2.7 Flammable materials shall be stored away from ignition sources. **'No Smoking'** signs shall be posted where such materials are handled and stored.

3.0 SPRAY PAINTING

- 3.1 The Best Available Technology (BAT) shall be implemented to remove vapours during spray painting operations to minimize the release of fugitive emissions to the environment.
- 3.2 **'NO SMOKING'** signs shall be mounted at the spray-painting area to reduce the risk of fire.
- 3.3 Spray-painting activities shall **NOT** be conducted outdoors. All spray-painting activities shall be conducted within the workshop.
- 3.4 Spray painting chemicals, including paints and flammable solvents, shall be stored within secondary containment (bund area) to minimize the spread/ release of spillage from the storage area.
- 3.5 Paint cans shall be tightly sealed and kept off the floor on pallets to reduce the occurrence of spills.
- 3.6 Compressed cylinders shall be stored and managed according to the supplier's recommendations. Air compressors should also be operated per the manufacturer's instructions.
- 3.7 Safety Data Sheets for paints, solvents, and other chemicals shall be readily available and easily accessible at all times at the Project site.

4.0 OPERATION OF SANDBLASTING FACILITY

- 4.1 The Best Available Technology (BAT) shall be implemented to contain particles during glass blasting operations to minimize the release of fugitive emissions to the environment.
- 4.2 Sandblasting activities shall **NOT** be conducted outdoors.
- 4.3 All sandblasting shall be conducted within the confines of an enclosed area, such as tarps, shrouds, or other structures, to minimize airborne emissions.
- 4.4 Sandblasting shall be done at least 3 meters away from open waterways.



- 4.5 Records of the total amount of sandblasting media used and any control methods employed shall be maintained. These records shall be made available to the EPA upon request.

5.0 NDT TESTING

- 5.1 The Permit Holder shall (ONLY) conduct Ultrasonic (US), Magnetic Particle Inspection (MPI), and Dye Penetrant Inspection (DPI) testing.

- 5.2 Radioactive Non-Destructive Testing is **strictly prohibited**.

- 5.3 Non-destructive testing is strictly **prohibited** within **densely populated residential areas**.

- 5.4 Non-destructive testing shall only be conducted at sites permitted by the EPA.

- 5.5 Non-Destructive Testing Shall **not be carried** out on surfaces that **exceed 125°F (52°C)**.

- 5.5.1 The surface temperature on the structures to be examined shall **not be below 40°F (5°C) nor above 125°F (52°C)** throughout the examination process to reduce the risk of fire hazards.

- 5.5.2 Regular testing of temperature shall be conducted throughout the NDT process and included as part of the client report. These records shall be maintained by the project and submitted to the EPA upon request.

- 5.6 During testing, if penetrant is applied by spraying method using compressed-air equipment, filters shall be used upstream to avoid contamination of immediate soil and water receptors.

- 5.7 Onshore Non-Destructive Testing shall be conducted on an impervious surface to prevent contamination of the immediate surrounding environment.

- 5.7.1 Floor mats will be used where applicable during testing to prevent seepage of chemicals into the environment.

6.0 AIR QUALITY MANAGEMENT

- 6.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.

- 6.2 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:



Air Pollutant	Averaging Time	Maximum Permissible Level	Type of Monitoring	Frequency
Carbon Monoxide	24 h	4 mg/m ³	Ambient	Annually
Nitrogen Dioxide	24 h	25 µg/m ³	Ambient	Annually
Sulfur Dioxide	24 h	40 µg/m ³	Ambient	Annually
PM _{2.5}	24 h	15 µg/m ³	Ambient	Annually
PM ₁₀	24h	45 µg/m ³	Ambient	Annually

Air quality testing shall be conducted 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**.

- 6.3 In the event of inefficiencies that may result in visible or abnormal emissions into the air, the operator shall:
- 5.3.1 Investigate and undertake remedial action immediately;
 - 5.3.2 Adjust the process or activity to minimise those emissions; and
 - 5.3.3 Record the events and actions taken. This shall be submitted in the annual report.

7.0 NOISE MANAGEMENT

- 7.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000**.
- 7.2 Noise emissions shall be monitored 15 meters away from the source of noise (at the Project's boundary) **annually** 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 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**.

- 7.3 All machines/equipment 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.
- 7.4 All equipment and machinery shall be placed upon foundations properly designed to ensure effective damping of vibrations.

- 7.5 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.

8.0 WATER QUALITY

- 8.1 Adhere to the provisions of **the Environmental Protection (Water Quality) Regulations, 2000.**
- 8.2 Discharge of wastewater from the Project into the environment is **strictly prohibited.**
- 8.3 Chemical spills occurring during the handling and loading of chemicals **shall be** immediately cleaned as guided by the respective Safety Data Sheet and disposed at an EPA-authorised disposal facility.

9.0 FUEL HANDLING AND STORAGE

- 9.1 A register of the type and quantity of fuel stored onsite shall be established and maintained. Records shall be made available for inspection by the EPA upon request.
- 9.2 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.
- 9.3 The project shall install and maintain an oil-water separator at the final discharge point.

Secondary Containment

- 9.4 The secondary containment shall;
- i. Possess 110% capacity of the volume of liquid stored within the largest storage container
 - ii. Walls shall be constructed of impermeable materials.
- 9.5 Discharge from the secondary containment directly into waterways is Strictly Prohibited. All effluent from the secondary containment shall be directed through the oil-water separator.
- 9.6 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 made available for inspection by the EPA upon request.
- 9.7 All secondary containment shall remain sealed, where existing piping enters or exits 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.

Fuel Tank

- 9.8 Fuel storage tanks shall be visually inspected monthly to verify their integrity. A summarised inspection report shall be compiled, maintained, and made available for inspection by the EPA upon request.
- 9.9 Protection measures such as painting and coating shall be maintained to minimise corrosion of the fuel tanks.
- 9.10 Maintenance and/or repair of fittings, pipes, and hoses shall be conducted in accordance with the manufacturer's specifications. A summarised inspection report shall be maintained and made available for inspection by the EPA upon Request.
- 9.11 The following labels shall be posted on ALL fuel storage tanks in accordance with the Global Harmonization Standards (GHS):
 - i. The name of the fuel stored,
 - ii. The tank capacity
 - iii. Warning signs ("Danger", "no-smoking", etc.)

Overfill Protection and Leak Detection

- 9.12 Overfill protection shall be installed and maintained on fuel tanks and may include an automatic shut-off device or an audible or visible overfill alarm.
- 9.13 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.
- 9.14 Dispensing equipment shall be designed with the Best Available Technology (BAT) to minimise spills e.g., suction, pressure, or gravity systems.
- 9.15 During fuel transfer, the Best Available Technology/ Technique (BAT) shall be employed to capture fuel lost during fuel unloading to storage tanks and refueling equipment.

10.0 WASTE MANAGEMENT

- 10.1 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 the facility.
- 10.2 Burning solid waste is **strictly prohibited**. All solid waste shall be disposed by an EPA Authorised Waste Disposal Company.



- 10.3 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.
- 10.4 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).
- 10.5 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.
- 10.6 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.
- 11.0 HAZARDOUS WASTE (Waste Oil, Oily Rags, Etc.) MANAGEMENT**
- 11.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulation 2000**.
- 11.2 Hazardous waste shall be stored in containers appropriate for the waste stream. That is:
- a) Sealed Metal Containers**
- i. Solvents and Petroleum- based products;
 - ii. Waste ink, Press-wash, Oil and Oily Absorbents
- 11.3 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.
- 11.4 Waste oil containers shall be labelled with the following:
- i. The words "**Waste Oil or 'Used oil'**"
 - ii. Beginning accumulation date
- 11.5 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.
- 11.6 Hazardous waste shall be treated and/or disposed of by an EPA-authorized Hazardous Waste Disposal Facility. All hazardous waste treatment and disposal shall be documented on a Waste Manifest Form, which must be submitted to the EPA as a component of the **Annual Report**.

12.0 COMPLIANCE MONITORING AND REPORTING

- 12.1 Notify the Environmental Protection Agency within one (1) hour of the discovery of the occurrence of environmental emergencies (e.g., oil spills, hazardous 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). Notification as prescribed by Section 19(3)(a) of the Environmental Protection Act, shall be submitted to the EPA within twenty-four (24) hours of the discovery of the incident occurring.
- 12.2 The Company shall respond to all environmental emergencies (e.g. chemical spills, fires, etc.) in accordance with the **Emergency Response Plan (ERP)** submitted to the EPA.
- 12.3 Monitor the implementation of the conditions of this Permit insofar as they involve adherence by your employees and all third parties under your direction.
- 12.4 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.
- 12.5 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.
- 12.6 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).
- 12.7 Submit an **Annual Report** to the EPA on your compliance with this Permit on or before **March 31 each year**.
- 12.8 Report to the Agency any non-compliance(s) with the Environmental Permit (Renewed):
- i. Within **twenty-four (24) hours** of the time, the Holder of the Environmental Permit (Modified) 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 (Modified) 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.

12.9 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.

12.10 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.

13.0 INSTITUTIONAL AUTHORITY/LIABILITIES

13.1 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.

13.2 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.

13.3 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.

13.4 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 over 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.

13.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 12.3 and 12.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

13.6 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, ultrahazardous substances, chemicals, or otherwise, and shall be rendered liable to prosecution and penalties prescribed under the Environmental Protection Act and Regulations.

- 13.7 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 concerning any release, discharge, or spill of contaminant fluids, oil or lubricants.
- 13.8 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.
- 13.9 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.
- 13.10 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 (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 13.11 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.
- 13.12 The EPA has the right to modify, cancel, or suspend this Permit for breach of any of the terms and conditions contained herein.
- 13.13 **This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 13.14 This Environmental Permit is effective for the period stipulated herein: **January 2024 to December 2026.**
- 13.15 This Environmental Permit shall remain valid until **December 31, 2026**, 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.
- 13.16 This Permit must be renewed by submitting a completed *Application Form* for



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Renewal of Environmental Authorization to the Agency at least six months before this Permit expires, that is, no later than **June 30, 2026**.

- 13.17 Any late submission of renewal application after the specified date as stated above, the Agency 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.
- 13.18 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 *Sharifah Razack* on behalf of the Environmental Protection Agency.
Kemraj Parsram
Executive Director

Date

2024.10.16

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:	ARLENE RAMESSAR
DESIGNATION:	ADMIN & HSE COORDINATOR
SIGNATURE:	<i>[Signature]</i>
DATE:	OCT 25, 2025

