



**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>20230330-SMRFS</b>
<b>Fee:</b>	<b>Small (C2) i.e., US\$175 per year</b>
<b>Fee Paid:</b>	<b>US\$ 875 for five (5) Years (September 2023 - August 2028)</b>
<b>Addressee:</b>	<b>Mr. Keith N Mahabir Country Manager Sabre Metals Roofing Inc. Lot 13-14, Coldingen Industrial Site, East Coast Demerara</b>
<b>Activity:</b>	<b>Operation of a Fuel Storage Facility - Diesel ONLY</b>

Sabre Metals Roofing Inc., 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, to store fuel (Diesel Only) at Lot 13-14, Coldingen Industrial Site, East Coast Demerara, hereinafter referred to as the "Project", in a manner indicated in the Application for Environmental Authorization submitted on March 30, 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 relevant to this project.

**Terms and Conditions for Operation to be adhered to by Permit Holder, His Servants, Agents and/or Sub-Contractor(s):**

### **1.0 OPERATION**

- 1.1 Make an application 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

- iv. effect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Submit to the EPA the following approvals for the Storage of Diesel on site, by **October 31, 2023**, unless otherwise directed by the EPA:
  - i. A copy of Guyana Energy Agency (GEA) License;
  - ii. A copy of Guyana Fire Service Petroleum License.
- 1.3 The Permit Holder is required to submit to the EPA upon receipt, the requisite approvals from the Central Housing and Planning Authority (CH&PA), the relevant Municipality or any other authority with jurisdiction and oversight over the Project; all of which are due no later than **six (6) months** after which the permit is issued, unless otherwise directed by the EPA.
- 1.4 Guyana Fire Service Approval shall be maintained annually and submitted as a component of the Annual Report.
  - 1.4.1 The Project shall maintain fire prevention and control equipment in accordance with the Guyana Fire Service Approval.
- 1.5 Adhere to the **Drainage & Irrigation Laws of Guyana Cap.64:03**.
- 1.6 The aboveground storage tank shall be located in an impervious bund to reduce the risk of groundwater and land contamination.
  - 1.6.1 A bund wall shall be used to divert storm-water away from storage areas.
  - 1.6.2 The storage area shall be located at least 100 meters away from waterways and areas prone to flooding.
- 1.7 Maintain an impervious secondary containment wall around the aboveground fuel storage tank, creating a temporary holding area in the event of accidental spillage.
  - 1.7.1 The containment wall shall be fully sealed to prevent spillage into the receiving drainage system.
  - 1.7.2 The containment wall for areas with solitary tank shall have the capacity to provide 110% containment of the fuel tank.
- 1.8 All secondary containment shall remain sealed and all piping shall 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.
- 1.9 Existing secondary containment around the fuel tank 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 summarised inspection report shall be

**Environmental Permit Ref. No. 20230330-SMRFS**

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kept and submitted to the Agency upon request.

- 1.10 The base of the secondary containment of the fuel storage facility shall be of impervious material.
- 1.11 Route pipelines from tanks to offset filling points, dispensing equipment and vent pipes below the ground surface. Pipelines shall not be located under buildings and shall be accessible for easy maintenance.
- 1.12 At least **one (1)** of the following leak detection mechanisms shall be installed:
  - i. An overflow alarm on tanks;
  - ii. A gauging system;
  - iii. Dipstick measurements; or
  - iv. Sensors installed on walls of tank.
- 1.13 Strictly adhere to the **Occupational, Health and Safety (OHS) Act, Cap. 99:10, Laws of Guyana.**
- 1.14 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental practices.

## **2.0 FUEL HANDLING AND STORAGE**

- 2.1 Adopt and comply with the National Standard "*Guidance for the Design, Construction, Modification, and Maintenance of Petrol Filling Stations*" and any forthcoming code of practice/guidelines pertaining to the operation of fuel storage.
- 2.2 A register of the quantities of fuel stored onsite shall be established and maintained. A summary of the registered information shall be kept and submitted to the EPA upon request.
- 2.3 Fuel shall at all times be stored aboveground, in a cool, dry place and away from ignition sources.
- 2.4 The Permit Holder shall store all fuel away from ignition sources and have '**No Smoking**' signs posted where fuel is handled or stored.
- 2.5 Routinely monitor and maintain aboveground storage tanks to prevent leaks. Areas to inspect include tank foundation, connections, coatings, tanks walls, and piping systems. Inspection reports shall be kept and provided upon request by the Agency.
- 2.6 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimise corrosion of fuel tanks.
- 2.7 Maintenance and/or repair of fittings, pipes and hoses shall be conducted in accordance to manufacturer's specifications.

- 2.8 The safe fill level shall be clearly 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.
- 2.9 In an emergency, switch off the tanks using the valves attached.
- 2.10 Secondary containment, drip trays/pans or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points from the tanks.

### **3.0 WATER QUALITY**

- 3.1 Strictly adhere to the provisions of the **Environmental Protection (Water Quality) Regulation, 2000**.
- 3.2 The Permit Holder shall install an oil-water separators at strategic locations on the storage facility through which all effluents shall pass before the final discharge by **October 31, 2023**.
- 3.3 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 not exceed:
  - i. Total Suspended Solid (TSS) < 100 mg/L;
  - ii. Oil and Grease < 10 mg/L; and
  - iii. Total Petroleum Hydrocarbon (TPH) < 40 mg/L.
- 3.4 Fuel/lubricants including waste oils shall not be drained from equipment onto the ground or into waterways.
- 3.5 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products. Store all oils, fuel, paints and chemicals in a designated area away from watercourses.

### **4.0 AIR QUALITY AND NOISE MANAGEMENT**

- 4.1 Strictly adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations, 2000**.
- 4.2 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*. Sound levels from noise-making devices shall not exceed the limits below, at a distance of 15 metres (50ft) from the source or property boundary, whichever is closer.

**Environmental Permit Ref. No. 20230330-SMRFS**

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

- 4.2 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*. Sound levels from noise-making devices shall not exceed the limits below, at a distance of 15 metres (50ft) from the source or property boundary, whichever is closer.

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

- 4.3 Handle and store liquid fuel in such a manner so as to prevent the emission of offensive odours.
- 4.4 Monitor any malfunction or breakdown leading to abnormal emissions promptly. Adjust process until normal operations can be restored.
- 4.5 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.
- 4.6 All generators and sound making machines/equipment shall be serviced in accordance to manufacturer's specification to ensure efficiency and reduce the level of noise produced.
- 4.7 Exhaust stacks of the generator(s) shall be **at least 2 meters above** the generator house or the tallest building nearby, to minimise adverse fumes/soot impacts to the contiguous areas.

## **5.0 WASTE MANAGEMENT**

- 5.1 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 at strategic locations at the facility, and waste shall be collected and disposed at an approved waste disposal facility.
- 5.2 Burning of garbage is **strictly prohibited**.
- 5.3 Solid waste receptacles shall be covered when not in use.
- 5.4 Good house-keeping, sanitary, and hygienic practices shall be maintained at all times. The facility surroundings shall be kept free of vegetation and litter.

## **6.0 HAZARDOUS WASTE MANAGEMENT**

- 6.1 Strictly adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulation 2000**.



**Environmental Permit Ref. No. 20230330-SMRFS**

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

- 6.2 All hazardous waste containers shall be labelled with the following:
- The words “**Hazardous Waste**”;
  - The type of waste; and
  - Beginning of accumulation date.
- 6.3 All hazardous waste shall be treated by an EPA authorised Hazardous Waste Treatment Facility.
- 6.4 Ensure that appropriate clean – up equipment such as spill trays, oil spill clean – up recovery pump, oil spill dispersant spray system or absorbent pads are readily accessible during refueling exercise.

**7.0 SPILLS AND EMERGENCY MANAGEMENT**

- 7.1 The Permit Holder shall employ and maintain appropriate procedures in keeping with good international industry practice (GIIP) to minimize spill risks, detect leaks, capture spills and minimize the release of hydrocarbons during transport/transfer, resale and other Project related activities.
- 7.2 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).
- 7.3 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.
- 7.4 Discharges 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 the contaminants).
- 7.5 The Permit Holder shall establish procedures for analyzing accidents and failures for the purpose of determining the causes of the failure and minimizing the possibility of a recurrence. This information shall be made available to the Agency upon request.
- 7.6 Submit an Emergency Response Plan (ERP) for the entire facility, inclusive of the pipeline system. The ERP shall contain, but may not be restricted to the following:
- Spill detection and mitigation procedures;
  - Escape, evacuation and rescue plan and assessment;
  - A list of responsible parties and duties;

**Environmental Permit Ref. No. 20230330-SMRFS**

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- iv. A list of regulatory agencies to be notified;
  - v. Names and addresses of response organizations;
  - vi. Training procedures;
  - vii. A list of equipment to be utilized;
  - viii. Testing procedures to ensure that equipment to be used remain in working condition; and
  - ix. Clean up and hazardous waste disposal procedures.
- 7.7 An Emergency spill clean-up kits shall be placed onsite by **October 31, 2023**, at the fuel storage areas for response to potential spills. Kits shall contain absorbent materials, drain seals and other appropriate tools for clean-up.
- 7.8 Appropriate clean-up equipment such as spill trays, oil spill clean-up recover pump, oil spill dispersant spray system or sorbent pads shall be readily accessible to respond to any spills that may occur onsite.
- 7.9 The Permit Holder shall install an emergency shut-off switch for the bunkering operations. The switch must be inspected and tested before every operation or as required by the manufacturer.
- 7.10 The Permit Holder shall Schedule training on simulated spill incident and response exercises for response personnel. Spill alert and reporting procedures, deployment of spill control equipment, and the emergency care/treatment of people and animals impacted by the spill.
- 7.11 The Permit Holder shall annually simulate the entire ERP with relevant stakeholders as directed and/or approved by the Agency. The Agency reserves the right to attend any exercise organized in accordance with this Condition.
- 8.0 COMPLIANCE MONITORING AND REPORTING**
- 8.1 The Permit Holder shall monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 8.2 The Permit Holder shall 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.
- 8.3 The Permit Holder shall 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.
- 8.4 The Permit Holder shall 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).

**Environmental Permit Ref. No. 20230330-SMRFS**

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- 8.5 The Permit Holder shall submit an **Annual Report** to the Agency containing the information required under this Environmental Permit on or before **March 31, each year.**
- 8.6 Report to the Agency any non-compliance with the Environmental Permit (Renewed & Varied):
- 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.
- 8.7 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.
- 9.0 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 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 excess of that prescribed by the regulations or stipulated by this Environmental Permit (Renewed), 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 8.3 and 8.4 of this Environmental Permit (Renewed), 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, 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



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- 9.7 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.
- 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 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.
- 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 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.
- 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 Permissions shall be obtained from other regulatory bodies for continued operation.**
- 9.14 This Environmental Permit is effective for the period stipulated herein, **September 2023 to August 2028.**
- 9.15 This Environmental Permit shall remain valid until **August 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.

**Environmental Permit Ref. No. 20230330-SMRFS**

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- 9.16 This Permit shall 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 **February 28, 2028**.
- 9.17 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 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.

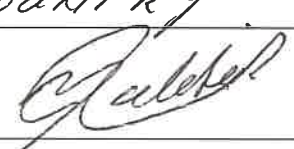
Signed by \_\_\_\_\_ on behalf of the Environmental Protection Agency.



Date

15.9.2023

**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	KEITH MAHABIR
DESIGNATION	COUNTRY MANAGER
SIGNATURE	
DATE	18 Sept 23

