



**Environmental  
Protection  
Agency**

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## **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.

Reference No.:	20150410-RHFMO
Fees	Medium (C1) US\$500 per year
Fees Paid:	US\$ 2500 for Five (5) Years (July 2022- June 2027)
Addressee(s):	National Milling Company of Guyana Incorporated (NAMILCO) Agricola Village, East Bank Demerara
Activity:	Operation of a Flour Production with Power Generation & Fuel Storage.



Ralf Hemsing trading and operation under the name “National Milling Company of Guyana Incorporated (NAMILCO)”, hereinafter referred to as the “Permit Holder”, is hereby authorised 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 operate a Flour Mill with Power Generation & Fuel Storage at Agricola, East Bank Demerara, hereinafter referred to as the “Project”, in a manner indicated in the Application for Renewal of Environmental Authorisation submitted on April 21, 2022, and subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, existing and/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 renewal of Operation Permit, Reference No. 20150410-RHFMO issued in August 2017 and expires July 2022.

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. 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;
  - ii. Change equipment, machine, apparatus, mechanism, system or technology serving the facility;

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- 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 in accordance with the Guyana Fire Service Approval.
- 1.3. Emergency spill clean-up kits shall be maintained at the project for response to spills. Kits must contain absorbent materials, drain seals and other appropriate tools for clean-up. Kits must be readily available and clearly identified at the Project.
- 1.4. All employees and third parties under NAMILCO's direction shall be made aware of the conditions of this Environmental Permit and shall be provided with training on sound environmental practices.
- 1.5. Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.**

## **2.0 POWER GENERATION**

- 2.1 Commissioning Reports shall be submitted for power plant by **December 31, 2022.**
- 2.2 The most recent copy of the inspection and maintenance report for the engines used by the project shall be submitted to the EPA **by December 31, 2022.**
- 2.3 All engines shall be operated in accordance with the optimum specifications including but not limited to megawatt thermal input, load, and horsepower which will allow for limited emissions rate.
- 2.4 The following records shall be maintained for all power generation engines identified at the Project:
- i. Megawatt thermal input;
  - ii. Calorific value; and
  - iii. Fuel-Oil consumption.
- 2.5 The records outlined in **condition 2.4** shall be submitted to the EPA as a component of the **Annual Report.**

## **3.0 FUEL HANDLING AND STORAGE**

- 3.1 Adopt and comply with the National SOP "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.

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- 3.2 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.
- 3.3 Existing secondary containment around the fuel tanks 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 summarized inspection report shall be kept and provided to the EPA upon request.
- 3.4 All secondary containment shall remain sealed and all piping must 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.
- 3.5 Fuel storage tanks shall be visually inspected to verify their integrity. A summarised inspection report shall be kept and provided to the EPA upon request.
- 3.6 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimise corrosion of fuel tanks.
- 3.7 Maintenance and/ or repair of fittings, pipes, and hoses shall be in accordance with manufacturer’s specifications. A summarised inspection report shall be kept and submitted to the EPA upon request.
- 3.8 Overfill protection shall be installed and maintained on all fuel tanks. This may include an automatic shut off device or an audible or visible overfill alarm.
- 3.9 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.
- 3.10 Discharge of wastewater from the secondary containment is **Strictly Prohibited**.
- 3.11 Wastewater from the secondary containment shall be pumped to a collection vessel and collected and discharged into the oil-water separator for treatment.

**4.0 AIR QUALITY MANAGEMENT**

- 4.1 Best Available Technologies (BATs) shall be implemented to prevent the overfilling of the silo and containers holding dusty materials beyond capacity.
- 4.2 Best Available Technologies (BATs) shall be implemented to reduce particulate matter (pm) emissions into the environment especially from:
- Grain receiving and handling;
  - Preliminary cleaning;
  - Cleaning House;
  - Milling;
  - Storage;



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- Bulk loading; and
- Bagging.

- 4.3 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 2005:

Air Pollutant	Averaging Time	Maximum Permissible Level	Type of Monitoring
PM <sub>2.5</sub>	24h	25 µg/m <sup>3</sup>	Ambient
PM <sub>10</sub>	24h	50 µg/m <sup>3</sup>	Ambient

- 4.4 The Permit Holder shall prepare and submit to the EPA for approval by **December 31, 2022**, a sampling and monitoring plan for air quality monitoring. The plan shall consider the parameters above and include but not limited to the frequency and location. Monitoring shall be conducted during normal operations by trained personnel utilizing calibrated equipment.
- 4.5 All mechanical equipment shall be operated and serviced in accordance with manufacturer's specifications. Summarised maintenance records shall be maintained and submitted to the EPA upon request.
- 4.6 An automated system shall be maintained to support the manual shut-off at the Flour Mill in cases of emergencies.

## **5.0 NOISE MANAGEMENT**

- 5.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000**.
- 5.2 All 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) requirement.
- 5.3 Noise emissions shall be monitored at the boundaries of the property to determine compliance with Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment.

### **Commercial Limits:**

- Daytime Limits (06:00 h- 18:00 h) - 80 dB
- Nighttime Limits (18:00 h – 06:00 h) – 65 dB

Noise quality monitoring shall be conducted annually during normal operations by trained personnel utilising calibrated Type 2 Sound Level Meters. Noise quality test results shall be submitted to the Agency as part of the Annual Report.

## **6.0 WATER QUALITY**

- 6.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000.**
- 6.2 Untreated effluent discharge from the project into the surrounding environment is **strictly prohibited.**
- 6.3 Promote conservation of water resources by minimizing water consumed in the manufacturing and recycle processes where applicable.
- 6.3 Adequately sloped interceptor drains shall be maintained to collect storm flow.
- 6.4 Fuel/lubricants including waste oils shall not be drained from the equipment onto the ground or into waterways.

## **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 solid waste is **strictly prohibited.** All solid waste shall be disposed of by an EPA Authorised Waste Disposal Company.
- 7.3 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.
- 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).

## **8.0 HAZARDOUS WASTES (WASTE OIL AND SLUDGE) MANAGEMENT**

- 8.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations 2000.**
- 8.2 Hazardous wastes such as; waste oils, and waste chemical agents such as gypsum from flue gas desulfurization generated by the power plant operation, shall be treated and disposed of by a certified Hazardous Waste Treatment and Disposal Company.
- 8.3 Hazardous waste shall be stored in sealed metal containers, appropriate for the waste stream.
- 8.4 Hazardous waste containers shall be labelled with the following:
  - i. The words **“Waste Oil or “Used oil” and “Sludge”**



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- ii. Beginning accumulation date
- 8.5 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. Secondary containment capable of containing 110% of the largest volume therein.
- 8.6 All hazardous waste shall be treated and/ or disposed of by an EPA authorised Hazardous Waste Disposal Facility. All hazardous waste treatment and disposal shall be documented on a Waste Manifest Form which shall be submitted to the EPA upon request. The manifest must contain the following:
  - a. The name and address of the generator;
  - b. The name, description, and hazard class of the waste;
  - c. The number and type of containers;
  - d. The quantity of waste being transported and collected; and
  - e. The name and address of the facility designated to receive the waste.
- 8.7 An incident spill report shall document **EVERY** occurrence of spills during the collection and/or transportation of hazardous waste. A copy of the spill report shall be submitted to the Agency **within twenty-four (24) hours of the incident**.
- 8.8 A Notification and Clean-up Plan for the Project shall be a component of the EAMP. The plan shall include, but not be limited to, the location of all materials stored and a notification and clean-up plan for each proposed site of operation in the event of a spill.

**9.0 COMPLIANCE MONITORING AND REPORTING**

- 9.1 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, and chemicals 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 discovery of the incident occurring.
- 9.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees.
- 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 event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to



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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, odour, 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, each year**.
- 9.7 Report to the Agency any non-compliance(s) with the Environmental Permit (Varied and Modified):
- 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.
- 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.



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- 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 (Renewed), 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 (Renewed), 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, ultra hazardous 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 construction 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



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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 should be obtained from other regulatory bodies for continued operation.**
- 10.14 This Environmental Permit (Renewed) is effective for the period stipulated herein; **July 2022 to June, 2027.**
- 10.15 This Environmental Permit (Renewed) shall remain valid until **June 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, the 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 **December 31, 2026.**
- 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 Kemraj Parsram on behalf of the Environmental Protection Agency.

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

Date

2022.07.07



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

<b>NAME:</b>	Vidyawati Heeralal
<b>DESIGNATION:</b>	Assistant to the Operations Manager
<b>DATE:</b>	16 <sup>th</sup> July 22
<b>SIGNATURE:</b>	