



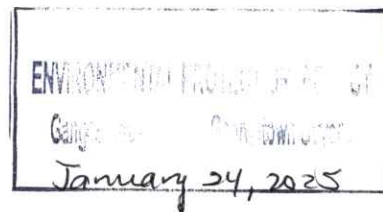
Government of the Cooperative Republic of Guyana
Environmental Protection Agency



January 21, 2025

Ref#: 20240827-JHCBM

Ms. Jiang Hang
Secretary
Pacaraima Building Supplies Inc.
Lot 265 Farm
East Bank Demerara
Guyana



Dear Ms. Jiang Hang,

Re: Environmental Permit for the Manufacturing of Concrete Blocks

The Environmental Protection Agency (EPA) has prepared an Environmental Permit for Pacaraima Building Supplies Inc. for the Manufacturing of Concrete Blocks at Lot 1 Block A "T" Huis Te Coverden, East Bank Demerara.

Please sign the Environmental Permit to indicate your acceptance of its terms and conditions and agreement to comply with the statutory requirements of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

The cost for the Permit is **US\$2500 for Five (5) years (i.e., US\$500 per year)**. You are required to pay this fee or its equivalent in Guyana dollars using the Bank of Guyana Inc. daily exchange rate. Payment can be made to the Environmental Protection Agency in cash, Manager's or Personal Cheque in Guyana dollars. Please note that Personal Cheques written in United States dollars will not be accepted.

Should you have any questions or require further clarifications, please do not hesitate to contact **Ms. Tricia Braithwaite - Environmental Officer, Manufacturing/Industry Department**, by telephone number 225-0506 (Ext. 2365) or email- industry@epaguyana.org.

Yours sincerely,


Kemraj Parsram
Executive Director

Ganges St., Sophia, Georgetown, GUYANA.

Tel: (592) 225-5467/5471-5472/6044/6048 | Fax: 225-5481



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www.epaguyana.org



Environmental Protection Agency - Guyana

"The Environment is Everybody's Business"



**Environmental
Protection
Agency**

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Website: <http://www.epaguyana.org>

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.:	20240827-JHCBM
Fee:	Medium (C1) - US\$500 per year
Fees to be Paid:	US\$2500 for Five (5) years (January, 2025 – December, 2029)
Addressee:	Ms. Jiang Hang Secretary Pacaraima Building Supplies Inc. Lot 265 Farm East Bank Demerara Guyana
Activity:	Manufacturing of Concrete Blocks

Pacaraima Building Supplies 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 Environmental Protection (Authorisations) Regulations, 2000, for the Manufacturing of Concrete Blocks at Lot 1 Block A “T” Huis Te Coverden, East Bank Demerara, hereinafter referred to as the “Project,” in the manner indicated in the Application for Environmental Authorisation submitted on August 27, 2024, 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 other applicable laws, guidelines, best practices, and standards relevant to this project.

The Permit Holder, His Servants, Agents, and/or Sub-contractors shall comply with the following Terms and Conditions:

1.0 OPERATIONS

- 1.1 An application shall be made 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;**

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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 Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 All employees and third parties under the Project's direction shall be made aware of the conditions of the Environmental Authorisation.
- 1.3 The Permit Holder shall provide training on good environmental practices.
- 1.4 Standard Operating Procedures (SOPs) for the Concrete Block Manufacturing Plant and other associated equipment shall be established and maintained on-site and made available for inspection by the EPA upon request.
- 1.5 All employees shall be trained on the SOPs outlined in **condition 1.4**.
- 1.6 Training records shall be maintained onsite and made available for inspection by the EPA upon request.
- 1.7 The concrete block manufacturing plant, trucks, generators, and other associated equipment shall at all times be mounted or parked on impervious bases to prevent fuel spills and leaks from entering the soil
- 1.8 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:06, Laws of Guyana**.

2.0 AIR QUALITY MANAGEMENT

- 2.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 2.2 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
PM 2.5	24h	15 µg/m ³	Ambient	Annually
PM 10	24h	45 µg/m ³	Ambient	Annually

Air Quality monitoring 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**.

- 2.3 Particulate matter and dust suppression methods shall be maintained around the stockpiles and the concrete panel production facility, which include but are not limited to:
- 2.3.1 Wet suppression/watering shall be implemented to control dust emissions from material stockpiles and other components of the operation that contribute to dust emissions in accordance with a schedule;
 - 2.3.2 Stockpiles of sand and other dusty materials shall be located in an area of low winds as far as possible from nearby sensitive receptors;
 - 2.3.3 Stockpiles shall be relatively flat on top and not exceed a height of eight (8) feet;
 - 2.3.4 Storage of sandstone and other aggregates on the roadway and government reserves is strictly prohibited;
 - 2.3.5 All stockpiles of sand and other dusty materials shall be covered with tarpaulin or other suitable material when not in use for extended periods to prevent particles from becoming airborne.

3.0 NOISE MANAGEMENT

- 3.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000.**
- 3.2 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.
- 3.3 All machines and equipment shall be serviced in accordance with the manufacturer's specifications to ensure efficiency and reduce the level of noise produced. Inspection and maintenance reports shall be maintained on-site and made available to the EPA upon request.
- 3.4 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 commercial limits listed below:

Commercial Limits:

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

Noise Quality monitoring shall be conducted in accordance with the parameters

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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**.

4.0 WATER QUALITY MANAGEMENT

4.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.

4.2 Discharge of untreated liquid effluent into the surrounding waterways is **strictly prohibited**.

4.3 An oil-water separator shall be installed at the point of final discharge from the secondary containment for the fuel storage facility.

4.4 All wastewater (concrete washout) shall be directed to the **sedimentation pond** for collection and treatment.

4.4.1 Dried sediments shall be collected and reused in the batching process if applicable; and

4.4.2 Discharge of sediments into waterways is strictly prohibited; where applicable, this can be used as landfills.

4.5 The project shall maintain the integrity of the existing waterways at all times. Discharges into the environment should 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 the general environment and should not be exceeded:

Parameter	Maximum Concentration	Units	Frequency
pH	5.0-9.0		Annually
Temperature	<40	°C	Annually
Biological Oxygen Demand (BOD)	<50	mg/L	Annually
Chemical Oxygen Demand (COD)	<250	mg/L	Annually
Total Suspended Solid (TSS)	<50	mg/L	Annually

Water Quality Monitoring shall be conducted annually at the discharge points, in accordance with the parameters listed above, by trained personnel utilizing calibrated equipment. A certificate of competency of the laboratory and records shall be maintained and submitted to the EPA as a component of the **Annual Report**.

- 4.6 Adequately sloped perimeter drains shall be maintained to collect storm flow. Stormwater discharges shall be directed away from the washout bund.
- 4.7 Fuel/lubricants, including waste oils, shall not be drained from the equipment onto the ground or into waterways.

5.0 HAZARDOUS WASTE (Oily rags, waste oil, etc.) MANAGEMENT

- 5.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulation 2000**.

- 5.2 Hazardous waste (Oily rags, waste oil, etc.) generated from the servicing of the vehicles and generator onsite shall be collected, stored, and treated by an EPA Authorized Hazardous Waste Treatment Facility.

- 5.3 Hazardous waste (Oily rags, waste oil, etc.) shall be stored in containers appropriate for the waste stream.

a) Sealed Metal Containers

- i. Solvents and Petroleum-based products
 - ii. Oil and Oily Absorbents
- 5.4 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., 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.
- 5.5 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.
- 5.6 Hazardous waste shall be treated and/ or disposed of by an EPA-authorized Hazardous Waste Disposal Facility.
- 5.7 The Project shall retain a signed copy of the **Waste Manifest Form** submitted by the Hazardous Waste Transporter for a period of three years. The copies shall be maintained on-site, and an annual summary of these records shall be submitted to the EPA as a component of the **Annual Report**

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6.0 WASTE MANAGEMENT

- 6.1 In accordance with the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site; covered garbage receptacles must be placed at strategic locations at the facility.
- 6.2 Waste materials shall not be burnt on site. All solid waste shall be disposed of at an approved solid waste disposal site.
- 6.3 Promote waste minimisation and the reuse and/or recycling of waste and other materials where practical.
- 6.5 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).
- 6.7 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.
- 6.8 Any modification to the Septic tank shall be in accordance with the Guyana National Bureau of Standards (GNBS) *Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems*.

7.0 COMPLIANCE MONITORING AND REPORTING

- 7.1 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).
- 7.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 7.3 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.
- 7.4 Notify the Agency within **twenty-one (21) days** in the event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.

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- 7.5 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).
- 7.6 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit on or before **March 31, of each year**.
- 7.7 Report to the Agency any non-compliance(s) with the Environmental Permit:
- i. Within **twenty-four (24) hours** of the time the Holder of the Environmental Authorisation 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.
- 7.8 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.
- 7.9 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.

8.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

- 8.1 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.
- 8.2 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.
- 8.3 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.
- 8.4 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

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- 8.5 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, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 8.6 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, ultrahazardous substances, chemicals, or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 8.7 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.
- 8.8 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.
- 8.9 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.
- 8.10 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.
- 8.11 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.
- 8.12 The EPA has the right to modify, cancel, or suspend this Permit for breach of any of the terms and conditions contained herein.

8.13 This Environmental Permit is not the final consent; all relevant

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Permissions should be obtained from other regulatory bodies for continued operation.

- 8.14 This Environmental Permit is effective for the period stipulated herein; **January 2025 to December 2029.**
- 8.15 This Environmental Permit shall remain valid until **December 31, 2029**, 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.
- 8.16 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 **June 30, 2029.**
- 8.17 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.
- 8.18 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 *Shanifah Azack* on behalf of the Environmental Protection Agency

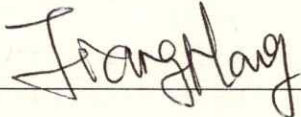
Kemraj Parsram
Kemraj Parsram
Executive Director
Executive Director

Date: 2025.01.22

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

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:	JIANG HANG
DESIGNATION:	Company Secretary
SIGNATURE:	
DATE:	2025-01-24

