



**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.:	20230213-CHCCT
Fee:	Medium (C1) - US\$500 per year
Fees to be Paid:	US\$2500 for Five (5) years (January, 2024 – December, 2028)
Addressee:	Mr. Churaman Harnandan Director Caribbean Construction and Trading Inc. 281 BB Eccles East Bank Demerara
Activity:	Production of Concrete Panels

Caribbean Construction and Trading 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 Production of Concrete Panels at Lot 8 & 9 Coverden, East Bank Demerara, hereinafter referred to as the "Project," in the manner indicated in the Application for Environmental Authorisation submitted on February 13, 2023, 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;
 - change the position and design of any outlet at the point or points of discharge of effluents; or

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- iv. effect any other change outlined in Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Standard Operating Procedures (SOPs) for the safe operation of the Batching Plant and other associated equipment shall be established and maintained, and submitted for inspection, upon request, by the Environmental Protection Agency (EPA).
- 1.3 All employees shall be trained on these SOPs outlined in **condition 1.2** above. Training records shall be maintained and submitted for inspection by the EPA upon request.
- 1.4 All employees, and third parties under your direction, shall be made aware of the conditions of the Environmental Authorisation and provided with training on good environmental practices. The annual training schedule shall be submitted for inspection by the EPA upon request.
- 1.5 **The Permit Holder shall submit to the Agency, upon receipt, Central Housing and Planning Authority (CH&PA) approval for the Production of Concrete Panels.**
- 1.6 Caribbean Construction and Trading Inc. shall prepare and submit to the EPA an Environmental Assessment and Management Plan (EAMP) for the entire Project with a specific focus on Air and Noise Quality.
- 1.7 The EAMP shall be prepared in accordance with the EPA's "Guidelines for Preparation of an Environment Assessment and Management Plan" and shall be submitted by **July 31, 2024**.
- 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 2005:

Air Pollutant	Averaging Time	Maximum Permissible Level	Type of Monitoring
PM _{2.5}	24h	15 µg/m ³	Ambient
PM ₁₀	24h	45 µg/m ³	Ambient

Air quality monitoring shall be determined by the Project's Environmental



Assessment and Management Plan (EAMP), and the results shall be maintained and submitted 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 to control dust emissions from material stockpiles and other components of the operation, in accordance with a schedule;
- 2.3.2 Stockpiling of sand and other dusty materials in an area of low winds as far as possible from nearby sensitive receptors;
- 2.3.3 Stockpiles kept relatively flat on top and not exceeding a height of eight (8) feet;
- 2.3.4 Material removed from the stockpiles on the leeward side.
- 2.3.5 All stockpiles of sand and other dusty materials are 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) Noise Emission Guidelines.
- 3.3 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.

Residential Limits:

- **75 dB** (Daytime Limits (06:00 h- 18:00 h))
- **60 dB** (Nighttime Limits (18:00 h – 06:00 h))

All Noise quality monitoring shall be determined by the EAMP and the results shall be maintained and submitted as a component of the Annual Report.



4.0 WATER QUALITY MANAGEMENT

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

4.2 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
pH	5.0-9.0	
Temperature	<40	°C
Biological Oxygen Demand (BOD)	<50	mg/L
Chemical Oxygen Demand (COD)	<250	mg/L
Total Suspended Solid (TSS)	<50	mg/L

Water quality monitoring shall be determined by the EAMP, and the results shall be maintained and submitted as a component of the Annual Report.

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

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, used as filling material for bad patches of road/land etc.

4.5 Perimeter drains shall be adequately sloped and maintained to collect storm flow. All stormwater discharge shall be directed away from the washout bund.

4.6 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) Regulations 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-authorised 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**.

6.0 WASTE MANAGEMENT

- 6.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.
- 6.2 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.
- 6.3 Waste materials shall not be burnt on site. All solid waste shall be disposed at an approved solid waste disposal site.
- 6.4 Promote waste minimisation and the reuse and/or recycling of waste and other materials where practical.
- 6.6 Waste collection areas shall be kept clean. Dry methods shall be used when cleaning



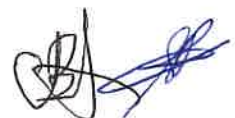
around waste handling and disposal areas (e.g., sweeping, use of absorbents).

- 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.
- 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 Guyana.
- 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.



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- 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 Permissions should be obtained from other regulatory bodies for continued operation.**
- 8.14 This Environmental Permit is effective for the period stipulated herein; **January 2024 to December 2028.**
- 8.15 This Environmental Permit shall remain valid until **December 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.
- 8.16 This Permit must be renewed by submitting a completed Application Form for





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Renewal of Environmental Authorisation to the Agency at least six months before this Permit expires, that is, no later than **June 30, 2028**.

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  on behalf of the Environmental Protection Agency

Kemraj Parsram
Executive Director

Date: 2024-03-22



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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:	CHURAMAN B. HARNANDAN
DESIGNATION:	CFO
SIGNATURE:	Churaman Harnandan
DATE:	3/22/2024