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Operation 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.:	20201117-CCGBP			
Fee:	Medium (C1) - US\$500 per year			
Fees Paid:	US\$2500 for Five (5) years (August 2021 – July 2026)			
Addressee:	Mr. Amar Chetram, General Manager, Caribbean Concrete (Guyana) Inc. Track A & B Amelia's Ward, Linden. ENVIRONMENTAL PROTECTION AGE: 27 Database Updated 3 30 2-2			
Activity:	Operation of a Concrete Batching Plant			

Caribbean Concrete (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 Environmental Protection Regulations, 2000, to operate a Concrete Batching Plant located at Track WAICO, Amelia's Ward Industrial Site, Linden, hereinafter referred to as the "Project", in the manner indicated in the Application for Environmental Authorisation submitted on November 17, 2020 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 GENERAL OPERATION

1.1 Notify the Agency in writing of any proposed changes in the operation of the Project at least **fourteen (14) days** before making the change. The notification shall contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment, including but not limited to the following:

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- Changes in operation, structure, or layout of the facility and all i. associated buildings.
- Installation of new and/or changes to equipment, machine, ii. apparatus, mechanism, system or technology serving the facility.
- Any technology used or installed at the facility from which iii. effluent may be discharged.
- Any other circumstance or condition prescribed by Regulation iv. 20(3) of the Environmental Protection (Authorisations) Regulations.
- The Project shall establish and maintain fire prevention and control equipment in 1.2 accordance with the Guyana Fire Service Approval. This may include a smoke detection and alarm system, fire extinguishers, fire hydrants or sprinkler systems as appropriate.
- All equipment used in the Project shall be monitored and maintained in 1.3 accordance with the manufacturer's specifications. A maintenance schedule shall be submitted to the Agency as a component of the Project's Annual Report.
- An automated system shall be maintained to support the manual shut off switch 1.4 at the Concrete Batching Plant.
- Servicing of machinery and transport equipment at the Project, including but not 1.5 limited to bob cats and trucks, shall be STRICTLY PROHIBITED.
- The Permit Holder shall submit to the Agency, the requisite approvals 1.6 upon obtaining such approvals from the Central Housing and Planning Authority (CH&PA), the relevant Municipality or any other authority with jurisdiction and oversight over the operations within.
- Scheduled training shall be maintained for employees involved in the Project. The 1.7 training schedule shall be submitted to the Agency as a component of the Annual Report.

STORAGE OF AD MIXTURES (HAZARDOUS MATERIALS) 2.0

- A register of the hazardous materials managed by the Project shall be established 2.1 and maintained. A summary of the registered information shall be submitted to the Agency as part of the **Annual Report.**
- All expired Ad mixture shall be returned to source for treatment and/or disposal. 2.2
- Ad mixtures shall not be stored on damaged, or inadequately secured racking or 2.3 on damaged pallets.

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- 2.4 Safety Data Sheets for ad mixtures shall be readily available and easily accessible at all times at the Project.
- 2.5 Ad mixtures shall be stored in accordance with the manufacturer's directions or Safety Data Sheet (SDS) instructions.
- 2.6 The SDS shall be adhered to regarding material incompatibility with other materials stored at the Project. Incompatible materials **shall not** be stored in close proximity to each other.
- 2.7 Ad mixtures shall be stored away from non-hazardous materials.
- 2.8 All material containers and storage racks shall be clearly labeled. These labels shall include the material name, material manufacturer, major hazard(s), and date received and/or prepared.
- 2.9 Materials stored within cans must be tightly sealed and kept off the floor on pallets.
- 2.10 Material storage containers shall be inspected for signs of leakage or corrosion. Damaged containers must be replaced **immediately.**
- 2.11 Secondary containment (bunded area) shall be established and maintained around storage areas of all liquid chemicals .The secondary containment (bunded area) shall possess 100% of the volume of liquid stored within the largest storage container and walls shall be constructed of impermeable materials.

3.0 WATER QUALITY MANAGEMENT

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

- 3.1 Spilled Ad mixture and wash water from Ad mixture storage area shall be directed into a sump/sample box on site.
- 3.2 Effluent discharge from the Project shall be directed to a settling pond for settlement before discharge. GPS coordinate for final discharge point shall be submitted by **September 30, 2021.**
- 3.3 Effluent discharge from the sump shall be in accordance with the Guyana National Bureau of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following allowable limits shall not be exceeded:

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Table 1: Parameter and limits for water quality assessments at the sump

Pa	rameter	Daily Maximum Concentration	Units	Sample Type	Frequency of Analysis
1.	pН	5.0 - 9.0		Grab	
2.	Temperature	<40	°C	Grab	
3.	Dissolved Oxygen	>40	mg/L	Grab	Annually
4.	Total Suspended Solid (TSS)	50	mg/L	Grab	

- 3.4 Grab samples of effluent shall be collected annually at the final discharge point from the sump.
- 3.5 The following information from collected samples shall be recorded and submitted to the EPA within thirty (30) days after the analysis was completed for each sampling done in accordance with this Permit:
 - a. The exact place, date and time of sampling;
 - b. The person(s) who performed the sampling;
 - c. The results of all the analysis;
 - i. Copies of original laboratory analytical reports.

4.0 AIR QUALITY MANAGEMENT

Adhere to the provisions of the Environmental Protection (Noise Air Quality) Regulations, 2000.

- 4.1 Best Available Technologies (BATs) shall be implemented to prevent the overfilling of silo and bulk containers holding dusty materials beyond capacity.
- 4.2 Aggregate stock-piles stored on-site shall not exceed two (2) meters in height.
- 4.3 Specialized Bulk Cement Carriers shall be used to transport and off-load cement to the plant.
- 4.4 The operation shall be completely enclosed i.e. conveyor belt (s) hopper(s) and storage area(s), dispensing point (s), and load out area(s), to minimise the impact of dust on the receiving environment.
- 4.5 The carriage way, driveway and passageway within the Project shall be maintained with impervious materials such as crush and run, asphalt road to reduce dust emissions. Wet suppression techniques shall be used to prevent excessive dust onto

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the environment if crush and run is used.

- 4.6 Monitor ambient air quality at the property boundaries to determine compliance with the requisite standards captured in the Table above. Measurements should be recorded and submitted in the **Annual Report**.
- 4.7 Investigate and respond to visible air emissions promptly. Records of event and actions taken shall be submitted in the Annual Report.
- 4.8 Particulate matter and dust suppression methods shall be maintained at the plant. These may include:

Air Pollutant	Averaging	Maximum Permissible	Type of	1-
	Time	Level	Monitoring	Monitoring
Carbon	1 h	35ppm	Ambient	Annually
Monoxide				
Nitrogen Dioxide	1 h	200μg/m ³	Ambient	Annually
Sulphur Dioxide	24 h	20 μg/m ³	Ambient	Annually
PM _{2.5}	24h	25 μg/m ³	Ambient	Quarterly
PM ₁₀	24h	50µg	Ambient	Quarterly

- 4.8.1 Wet suppression/watering to control dust emissions from material stockpiles, and other components of the operation that contributes to dust emissions in accordance with a schedule.
- 4.8.2 Erecting dust screens/fences to control particulate matter/dust emissions

5.0 NOISE MANAGEMENT

Adhere to the provisions of the Environmental Protection (Noise Management) Regulations, 2000.

- 5.1 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.
- 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.

Industrial Limits:

- Daytime Limits (o6:00 h- 18:00 h) 100 dB
- Nighttime Limits (18:00 h 06:00 h) 80 dB

Sound level monitoring shall be conducted quarterly at the property boundaries during daytime and nighttime by trained personnel with a calibrated Type 2 Noise Meter. Measurements should be recorded and submitted in 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. Waste must be collected and disposed of at an approved waste disposal facility.
- 6.2 Waste materials shall not be burnt on site. All solid waste shall be disposed at an approved Solid Waste Disposal Site by an EPA Authorised Waste Disposal Company.
- 6.3 Good house-keeping, sanitary, and hygienic practices shall be maintained at all times. The facility's surroundings shall be kept free of vegetation and litter.
- 6.4 Promote waste minimisation and the reuse and/or recycling of waste and other materials where practical.
- 6.5 Solid waste receptacles shall be secured when not in use.
- 6.6 Waste containers shall not be filled with washout water or any other liquid. Waste storage containers shall be inspected weekly, repaired, and/or replaced when damaged.
- 6.7 Hazardous wastes, appliances, fluorescent lamps, pesticides, etc. **shall not** be disposed of in solid waste containers. 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).

7.0 HAZARDOUS WASTE MANAGEMENT

Adhere to the provisions of the Environmental Protection (Hazardous Waste Management) Regulations 2000.

7.1 Hazardous waste shall be stored in containers appropriate for the waste stream. That is:

a) Sealed Plastic Containers

- 1. Water-based wastes
- 2. Fountain Solutions, Pre-Press

b) Metal Containers

- 1. Solvents and Petroleum-based products
- 2. Waste ink, Presswash, Oil and Oily Absorbents
- 7.2 Hazardous waste containers shall be labelled with the following:
 - 1. The words "Hazardous Waste"
 - **2.** The type of waste
 - 3. Beginning accumulation date-

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- 7.3 Waste oil/used oil containers shall be labelled with the following:
 - 1. The words "Waste Oil or "Used oil"
 - 2. Beginning accumulation date
- 7.4 Hazardous waste shall be stored in a covered, bunded area. This area shall include the following:
 - 1. Signage- "Hazardous Waste Storage Area"
 - 2. Low traffic
 - 3. No floor drains
- 7.5 Hazardous waste shall be 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 Project's **Annual Report.**

COMPLIANCE MONITORING AND REPORTING

- Notify the Environmental Protection Agency within one (1) hour of the occurrence of any environmental emergencies (e.g. oil spills, hazardous materials/wastes, 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).
- 8.2 Make all employees, and third parties under your direction, aware of the conditions of this Operation Permit (Renewed) and provide training on environmental practices.
- 8.3 Annual Training schedules and reports shall be submitted to the Agency as a component of the required Annual Report referred to as Monitoring and Compliance. Training shall include but not limited to Employees working in confined spaces and prolonged noisy areas.
- 8.4 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees.
- 8.5 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.
- 8.6 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.
- Submit **Annual Reports** to the EPA on the progress of the operation and compliance with the conditions under which this Permit was granted on or before March 31 each year.

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- 8.8 Report to the Agency any non-compliance(s) with the Operation Permit:
 - I. Within **twenty-four (24) hours** of the time the Holder of the Environmental Authorisation for Operation becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
 - II. Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance, its cause and the period of non-compliance including exact dates and time.
 - III. Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.
- 8.9 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.
- 8.10 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.

9.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

- 9.1 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.
- 9.2 The EPA reserves the right to review/amend the conditions attached to this Permit which also includes the review and/or amendment of permit fees in consideration of any changes in fee schedule as determined by the Agency for projects of this nature.
- 9.3 The Permit Holder, His Servants, Agents and/or Sub-Contractors 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 s.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.
- 9.4 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.

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- 9.5 The Permit Holder, his Servants, Agents and/or Sub-Contractors shall be strictly jointly and severally liable as follows:
 - a. For any activity that causes, or is likely to cause pollution of the environment, unless the person takes all reasonable and practicable measures to prevent or minimise any resulting adverse effect, in accordance with Section 19(1)(a) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
 - b. For any activity which results in the discharge, release or entry into the environment of any contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Permit, in accordance with Section 19(1)(b) of the Environmental Protection Act, Cap. 20:05 Laws of Guyana.
 - c. The discharge or release of contaminants, such as hydraulic fluids, lubricants, fuel, or other industrial fluids relative to the Project, which are not stipulated herein, or by Regulations under the Environmental Protection Act, are strictly prohibited. Any such discharge or release shall be a violation of Section 19(1)(b) of the Environmental Protection Act.
 - d. For the compensation of any Party who suffers any loss or damage as a result of the project. (s.19(3)(e)) Environmental Protection Act, Cap. 20:05, Laws of Guyana.
 - e. For any material or serious environmental harm caused by pollution of the environment intentionally or recklessly in accordance with section 39 (1), (2), (3) and (4) of the Environmental Protection Act, 20:05, Laws of Guyana.
 - f. Any gross negligence or willful misconduct resulting in serious risk, or adverse effects to the marine environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil, or lubricants from any facilities permitted under this project.
 - g. For the payment of all costs and expenses related to the assessment of damage and investigations required, as result of any pollution incidents attributable to the activity for which this Permit has been issued.
- 9.6 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any Complainant seeking loss or damage for negligence as a result of the Permit Holder's lack of due care and diligence.

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- 9.7 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve him an enforcement notice in accordance with s. 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 9.8 Where it appears to the Agency that the Permit Holder is engaged in any activity that may pose serious threat to natural resources or serious pollution of the Environment or any damage to public health, issue to the Permit Holder a Prohibition Notice, which may include an order to immediately cease the offending activity. See: s. 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 9.9 This Operation Permit is effective for the period stipulated herein; **August 2021 to July 2026.**
- 9.10 This Operation Permit shall remain valid until **July 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.
- 9.11 This Permit must be renewed by submitting a completed Renewed Application Form for Environmental Authorisation (Operation Permit) to the Agency at least six months before this Permit expires, that is, no later than **January 31, 2026.**
- 9.12 Any late submission of renewal application (s) after the specified date as stated above, the Agency 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.
- 9.13 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.

Signed by

Kemraj Parsarm

mental Protection Agency

Executive Director

on behalf of the Environmental Protection Agency.

Date

19.08.2021

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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 Operation 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 forthcoming regulations, guidelines, best practices and standards made under this Act.

NAME	120RY CHETEM
DESIGNATION	DEroct
SIGNATURE	Dong thato por man blate
DATE	2024/02/21