



**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.:	20210317- CBPSC
Fee:	Medium (C1) - US\$500 per year
Fees Paid:	US\$2500 for Five (5) years (November 2021 – October 2026)
Addressee:	Ian Jones Technical Director Superior Concrete Inc. Lot 45, Third Street Turkeyen Georgetown
Activity:	Operation of a Concrete Batching Plant



Superior Concrete 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, to operate a Concrete Batching Plant at the South Eastern portion of Plot Area GIL2, Plantation Rome, Greater Georgetown, hereinafter referred to as the “Project”, in the manner indicated in the Application for Environmental Authorisation submitted on August 30, 2021 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 Adhere to the requirements of the Occupational Safety and Health Act, Cap. 99:06, Laws of Guyana.
- 1.2 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

- iii. 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 Regulation 20(3) of the Environmental Protection (Authorisations) Regulations
- 1.3 Standard Operating Procedures (SOPs) for safe Operation of the Batching Plant and other associated equipment shall be established and maintained.
- 1.4 All employees shall be trained on these SOPs outlined in **condition 1.3** above. Training records shall be maintained and submitted to the EPA upon request.
- 1.5 Servicing and maintenance of the Batching Plant, generator(s), and other equipment shall be conducted in accordance with manufacturer's specification. Summarised maintenance records shall be maintained and submitted to the EPA upon request.
- 1.6 An automated system shall be maintained to support the manual shut off of the Batching Plant in cases of emergencies.
- 1.7 The Batching 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 An **Emergency Response Plan (ERP)** shall be established and maintained for the Project. The Plan shall include, but not be limited to procedures for addressing all possible emergencies including spills and fires, local emergency response authorities, notification of national and local authorities, coordination of clean-up activities and assessment of health hazards to humans and the environment.
- 2.0 STORAGE OF AD MIXTURES (HAZARDOUS MATERIALS)**
- 2.1 A register of the hazardous materials managed by the Project shall be established and maintained. The registered information shall be maintained and submitted to the EPA upon request.
- 2.2 Emergency spill clean-up kits shall be readily available, clearly identified and maintained at the Project for response to spills. Kits must contain absorbent materials, drain seals and other appropriate tools for clean-up.
- 2.3 Admixture Storage Areas shall be clearly labeled with "Danger, Chemical Storage Area-Authorized Personnel Only" where applicable as a spill control measure.
- 2.4 Secondary containment (bund area) shall be established and maintained around storage areas of all liquid Admixtures. The secondary containment shall have:
- i. A volume equivalent to the volume of liquid stored within the largest storage container and;
 - ii. Walls constructed of impermeable materials.

- 2.5 Admixture containers shall be clearly labelled in accordance with the Globally Harmonized System of Classification and Labelling. The following must be evident:
- i. Signal Word;
 - ii. GHS Symbols- (Hazard Pictograms);
 - iii. Manufacturer Information;
 - iv. Precautionary Statements/ First Aid;
 - v. Hazard Statements; and
 - vi. Product Name or Identifiers.
- 2.6 Admixtures **shall not** be stored on damaged, or inadequately secured racking or on damaged pallets to minimise the risk of spills.
- 2.7 Safety Data Sheets for all Admixtures shall be readily available and easily accessible at all times at the Project.
- 2.8 Admixtures shall be stored in accordance with the manufacturer's directions or Safety Data Sheet (SDS) instructions.
- 2.9 The SDS of the Admixture shall be adhered to regarding material incompatibility with other materials stored at the Project. Incompatible materials **shall not** be stored in close proximity to Admixtures.
- 2.10 Chemical storage containers shall be inspected for signs of leakage or corrosion and damaged containers **must be replaced immediately**. Inspection reports must be maintained and signed by the appropriate qualified inspecting officer and his/her supervisor.
- 2.11 All employees involved in the management of Admixtures shall be trained on Hazardous Material Communication and Emergency Preparedness Response. Training records shall be maintained and submitted to the EPA upon request.
- 2.12 All expired Admixture shall be returned to source for treatment and/or disposal.

3.0 WATER QUALITY MANAGEMENT

- 3.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.
- 3.2 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:
- pH 5.0-9.0;
 - Temperature < 40 °C;
 - Biological Oxygen Demand (BOD₅) < 50 mg/L;

- Chemical Oxygen Demand (COD) < 250 mg/L;
- Total Suspended Solid (TSS) < 50 mg/L;
- Oil and Grease < 10 mg/L; and

The Permit Holder shall determine a water quality monitoring plan and submit this plan along with the water quality test results to the Agency as part of the Annual Report.

- 3.3 Discharge of untreated wastewater (concrete washout) into the surrounding waterways is **strictly prohibited**.
- 3.4 All wastewater (concrete washout) shall be directed to the washout bund for collection and evaporation. Dried washout shall be collected and reused in the batching process.
- 3.5 Any chemical spills occurring during handling and loading of Admixtures, **shall be** immediately cleaned and disposed as guided by the respective Safety Data Sheet, at an EPA authorised disposal facility.
- 3.6 Adequately sloped interceptor drains shall be maintained to collect storm flow. Storm water discharges shall be directed away from the washout bund.
- 3.7 Fuel/lubricants including waste oils shall not be drained from equipment onto the ground or into waterways.

4.0 AIR QUALITY MANAGEMENT

- 4.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 4.2 Best Available Technologies (BATs) shall be implemented to prevent the overfilling of silo and bulk containers holding dusty materials beyond capacity.
- 4.3 Aggregate stock-piles stored on-site shall not exceed two (2) meters in height.
- 4.4 Sealed tanker trucks shall be used to transport and off-load cement to the plant.
- 4.5 Driveways and passageways within the Project shall be maintained with impervious materials such as crusher run, asphalt road to reduce dust emissions. Wet suppression techniques shall be used to prevent excessive dust onto the environment if crusher run is used.
- 4.6 Monitor ambient air quality at the boundary of the property to assess compliance with the requisite standards below:

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

Monitoring shall be conducted during normal operations by trained personnel utilising calibrated equipment. The Permit Holder shall determine an air quality monitoring plan and submit this plan along with the air quality test results to the Agency as part of the Annual Report.

- 4.7 Particulate matter and dust suppression methods shall be maintained at the plant. These may include:

- 4.7.1 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.
- 4.7.2 Erecting dust screens/fences to control particulate matter/dust emissions

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.

Industrial Limits:

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

The Permit Holder shall determine a noise quality monitoring plan and submit this plan along with noise quality test results to the Agency as part of the Annual Report.

Monitoring shall be conducted by trained personnel using calibrated Type 2 Sound Level Meters.

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 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 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 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental practices. Annual training schedule shall be submitted in the **Annual Report**.
- 7.3 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 7.4 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.
- 7.5 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.
- 7.6 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).

7.7 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.

7.8 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 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.

7.9 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.

7.10 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.

8.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

8.1 The EPA reserves the right to conduct regular inspections of the Project's activities as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05 and the Environmental Protection (Authorisations) Regulations, 2000.

8.2 The Permit Holder, His Servants and/or Agents shall at all times allow access 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.

8.3 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.

8.4 The Permit Holder shall be liable for:

- (i) causing any material or serious harm by polluting the environment, with or

- without intent or recklessness and knowledge that the harm will or may result;
- (ii) any resulting adverse effect of potentially polluting activities, where all reasonable and practicable measures were not taken to prevent or minimise the said effect; and
 - (iii) the discharge or release of or for causing or permitting the entry of any contaminant in any amount, concentration or level in excess of those stipulated by this Environmental Permit.

Insofar as the above-stated can be attributed to the Project's activities. This condition is pursuant to Section 39 and Section 19 (1) and (2) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

- 8.5 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed Project's activities. (See: s. 19 (3)(e) 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, ultra hazardous 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 for any gross negligence or willful misconduct by the Permit Holder, his Servants and/or Agents which results in damage to the environment due to any release, discharge or spillage of contaminant leachate, fluids, oil or lubricants.
- 8.8 Should the Permit Holder contravene or is 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 serious threat to natural resources or 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 **This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 8.11 **This Environmental Permit is effective for the period stipulated herein; November, 2021 to October, 2026.**

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- 8.12 This Environmental Permit shall remain valid until **October 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.
- 8.13 This Permit must be renewed by submitting a completed Renewal Application Form for Environmental Authorisation to the Agency at least six months before this Permit expires, that is, no later than **April 30, 2026**.
- 8.14 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.
- 8.15 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, its Regulations and other applicable Laws of Guyana.

Signed by *Shanifah Lazack* on behalf of the Environmental Protection Agency.

for **Kemraj Parsram**
Executive Director


Date

2021.11.18

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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, 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	IAN JONES
DATE	18 th November, 2021
SIGNATURE	
DESIGNATION	TECHNICAL DIRECTOR

