



**Environmental
Protection
Agency**

Ganges Street, Sophia,
Georgetown, GUYANA
Tel.: (592) 225-0506
Fax: (592) 225-5481
Email: epa@epaguyana.org
Website: <http://www.epaguyana.org>

Environmental Permit(Varied)

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.:	20210814-CBPAB
Fee:	Medium (C1) i.e. US\$500 per year
Fee Paid:	US\$2500 for (5) years (January 2022- December 2026)
Addressee:	Mr. Jason Bhaskaran Director J.S.B Investments Inc. Tract "D" Timehri Road, East Bank, Demerara.
Activity:	Manufacturing of Concrete Blocks, Pavers & Bricks
Varied Activity	Transportation and Storage of Ferrous & Non-Ferrous Wastes and Waste Electrical and Electronic Equipment (E-waste).

J.S.B Investment 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 the Environmental Protection (Authorisations) Regulations, 2000, to Manufacture Concrete Blocks, Paver & Bricks; Transportation and Storage of Ferrous & Non-Ferrous Wastes and Waste Electrical and Electronic Equipment (E-waste) at Block "A", Yarrowkabra, Eastern Side, Soesdyke Linden Highway, hereinafter referred to as the "Project", in a manner indicated in the Application for Environmental Authorisation submitted on September 2, 2021 and Variance of Environmental Authorisation submitted on March 01, 2023 respectively, 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.

This is a Variance of the Environmental Permit Reference No. 20210814-CBPAB, issued on July 28, 2022, and will expire on December 2026.

The Permit Holder, His Servants, Agents, and/or Sub-Contractor(s) shall comply with the following Terms and Conditions for Operation:

1.0 General

- 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;
 - 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 **The Permit Holder is required to submit to the EPA upon receipt, the requisite approvals from the Central Housing and Planning Authority (CH&PA), the relevant Municipality, or any other authority with jurisdiction and oversight over the Project.**
- 1.3 Obtain and maintain the **Ministry of Tourism, Industry, and Commerce Scrap Metal Unit Certificate** yearly and submit a copy of the approval to the EPA for its records.
- 1.4 Servicing and maintenance of the Processing Plant, generator(s), and other equipment shall be conducted in accordance with the manufacturer's specification. Summarised maintenance records shall be maintained and submitted to the EPA upon request.
- 1.5 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 records shall be maintained on-site and submitted to the EPA upon request.
- 1.6 Obtain and maintain Guyana Fire Service Approval and submit a copy of the approval for the EPA's records.
 - 1.6.1 Fire prevention and control equipment shall be maintained in accordance with this Guyana Fire Service Approval.
- 1.7 The Permit Holder shall adhere to the **Occupational, Health, and Safety (OHS) Act, Cap. 99:10, Laws of Guyana.**

2.0 BLOCK-MAKING FACILITY

- 2.1 An automated system shall be installed to support the manual shut-off of the Processing Plant in cases of emergencies.
- 2.2 The Processing Plant, trucks, generators, and other associated equipment shall at all

times be mounted or parked and services on impervious bases, to prevent fuel spills and leaks from entering the soil.

- 2.3 Standard Operating Procedures (SOPs) for the safe operation of the Processing Plant and other associated equipment used during the manufacturing process shall be established and maintained.
- 2.4 All employees shall be trained on these SOPs outlined in **condition 2.3** above. Training records shall be maintained and submitted to the EPA upon request.

3.0 TRANSPORTATION OF FERROUS AND NON-FERROUS WASTES and ELECTRICAL & ELECTRONIC EQUIPMENT(E-WASTE)

- 3.1 Ferrous and non-ferrous scrap wastes shall be packed and strapped at least one meter below the height of the top rail of the tray of the vehicle.
- 3.2 Waste Collection Vehicles shall be inspected for signs of leakage or corrosion and damaged parts **must be** repaired/replaced **immediately**. Inspection reports must be maintained and submitted to the EPA upon request.
- 3.3 Highly visible and legible labels shall be affixed to the Waste Collection Vehicles transporting ferrous and non-ferrous scrap waste, Electrical & Electronic Equipment (E-Waste), and charcoal. The signage shall include the following information:
- i. Identity and contact information of the Project;
 - ii. The words **“Transportation of Ferrous and Non-Ferrous Scrap Waste and Electrical & Electronic Equipment (E-Waste)”**.
- 3.4 All ferrous, non-ferrous scrap wastes & electrical & electronic equipment (E-Waste) collected and transported shall be documented on a Waste Manifest Form which must be submitted to the EPA upon request.

4.0 MANAGEMENT OF FERROUS AND NON-FERROUS SCRAP WASTES

- 4.1 Storage of ferrous scrap wastes at the Project site shall be stored orderly on an impervious base, with 6 meters between stockpiles.
- 4.2 Non-ferrous scrap waste shall be stored under a covered area on the impervious base that is protected from entry of storm or rainwater. The storage area shall be clearly demarcated and shall not be accessible to unauthorised persons.
- 4.3 An inventory of ferrous and non-ferrous scrap wastes shall be established and maintained. The reports shall be made available to the EPA upon request.

- 4.4 Smelting of scrap metal shall be conducted within a controlled environment designed to control indoor and outdoor hazardous air emissions.

5.0 MANAGEMENT OF WASTE ELECTRICAL & ELECTRONIC EQUIPMENT (E-WASTE).

- 5.1 Waste Electrical & Electronic Equipment (E-Waste) shall be managed with care in order to avoid the release of hazardous substances into the air, water, or soil, as a result of damage and/or leakage.
- 5.2 Dismantling and sorting of waste electrical & electronic Equipment (E-Waste) shall be conducted on impervious surfaces.
- 5.3 Management and storage of Waste Electrical & Electronic Equipment (E-Waste) components containing hazardous materials shall be conducted in a secure and designated ventilated area. This area shall include the following:
- i. Signage- **"E-Waste Storage Area"**
 - ii. Not exposed to direct sunlight and rainfall
 - iii. No damage components to release gases, liquids, or solid particles into the environment.
- 5.4 Waste Electrical & Electronic Equipment (E-Waste) shall not be mixed with non-hazardous waste.
- 5.5 Containers used for the storage of Waste Electrical & Electronic Equipment (E-Waste) containing hazardous substances shall be cleaned and decontaminated prior to re-use, recycling, or disposal.
- 5.6 The disposal of Waste Electrical & Electronic Equipment (E-Waste) **is strictly prohibited.**
- 5.7 An inventory of Waste Electrical & Electronic Equipment (E-Waste) shall be established and maintained. The reports shall be made available to the EPA upon request.

5.0 AIR QUALITY

- 5.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**
- 5.2 Best Available Technologies (BATs) shall be implemented to prevent the overfilling of

silo and pan mixers holding dusty materials beyond capacity.

- 5.3 Aggregate stockpiles stored on-site shall not exceed two (2) meters in height.
- 5.4 Driveways and passageways within the Project shall be maintained with impervious materials such as crusher run, and asphalt roads to reduce dust emissions. Wet suppression techniques shall be used to prevent excessive dust from the environment if a crusher run is used.
- 5.5 Specialized Bulk Cement Carriers shall be used to transport and off-load cement at the Plant.
- 5.6 Raw materials such as sand and gravel be enclosed or covered during transport to the Facility to reduce airborne emissions.
- 5.7 Monitor ambient air quality at the boundary of the property to assess compliance with the requisite standards below:

No.	Air Pollutant	Averaging Time	Maximum Permissible Level	Type of Monitoring
1.	PM _{2.5}	24	25 µg/m ³	Ambient
2.	PM ₁₀	24h	50µg/m ³	Ambient

An air quality monitoring plan shall be submitted to the EPA for approval. Monitoring of the parameters above shall be conducted in accordance to the approved monitoring plan and the results shall be submitted to the Agency as part of the Annual Report.

- 5.8 Particulate matter and dust suppression methods shall be maintained at the plant. These may include:
- 5.8.1 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.
- 5.8.2 Erecting dust screens/fences to control particulate matter/dust emissions.

6.0 NOISE MANAGEMENT

- 6.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000.**
- 6.2 Equip all significant noise-producing equipment, such as generators, the Processing Plant, etc. with silencers or mufflers and/or enclose in suitable acoustic enclosures

where necessary, to reduce noise levels impacting the surrounding environment and to achieve compliance with GNBS requirements.

- 6.3 All generators and machines/equipment shall be serviced in accordance to the manufacturer's specifications to ensure efficiency and reduce the level of noise produced. A summarised maintenance report shall be submitted to the EPA as a component of the Annual Report.
- 6.4 Ferrous & Non-ferrous scrap metals shall be placed 4 meters with adequate distances between stockpiles.
- 6.5 Noise emissions shall be monitored at the Project's boundary to determine compliance with Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment, not exceeding the industrial limits listed below:

Commercial Limits: **80 dB** (Day-time (06:00 h-18:00 h))
 65 dB (Night-time (18:00 h- 06:00 h))

A noise quality monitoring plan shall be submitted to the EPA for approval. Noise monitoring shall be conducted in accordance to the approved plan and the results shall be submitted to the Agency as part of the Annual Report.

7.0 STORAGE OF CHEMICALS (Cement Additives)

- 7.1 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.
- 7.2 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.
- 7.3 Admixture Storage Areas shall be clearly labeled with "Danger, Chemical Storage Area-Authorized Personnel Only" where applicable as a spill control measure.
- 7.4 Secondary containment (bundled 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.
- 7.5 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.

- 7.6 Admixtures **shall not** be stored on damaged or inadequately secured racking or on damaged pallets to minimize the risk of spills.
- 7.7 Safety Data Sheets for all Admixtures shall be readily available and easily accessible at all times at the Project.
- 7.8 Admixtures shall be stored in accordance with the manufacturer's directions or Safety Data Sheet (SDS) instructions.
- 7.9 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.
- 7.10 Chemical storage containers shall be inspected for signs of leakage or corrosion and damaged containers **must be replaced immediately**. Inspection reports shall be maintained and signed by the appropriate qualified inspecting officer and his/her supervisor.
- 7.11 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.

8.0 WATER QUALITY

- 8.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.
- 8.2 Discharge of wastewater from the Project into the surrounding environment is **strictly prohibited**.
- 8.3 All wastewater shall be collected and reused in the manufacturing process.
- 8.4 Any chemical spills occurring during handling and loading of Admixtures, shall be immediately cleaned and disposed of as guided by the respective Safety Data Sheet, at an EPA authorised disposal facility.
- 8.5 Fuel/lubricants including waste oils shall not be drained from the equipment onto the ground or into waterways.
- 8.6 Stormwater shall be directed, collected, and stored in water tanks for reuse.

9.0 WASTE MANAGEMENT

- 9.1 In accordance with the Environmental Protection (**Litter Enforcement Regulations 2013**), promote good sanitation and solid waste disposal practices on site. Place covered garbage receptacles, each on an impervious base and at a strategic location, within and outside the storage facility.
- 9.2 Burning solid waste **is strictly prohibited**. All solid waste shall be disposed of by an EPA Authorised Waste Disposal Company.
- 9.3 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).

10.0 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 spill, 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 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, odour, sound, vibration, radiation, heat or combination of any of them).
- 7.6 Submit an **Annual Report** to the EPA on your compliance with this on or before **March 31, 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 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.
- 7.8 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 (Renewed), 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 (Renewed) 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, 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 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; **February 2022 to January 2027.**
- 8.15 This Environmental Permit shall remain valid until **January 31, 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, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.


A



Environmental Permit Ref. No. 20210814-CBPAB(Varied)

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

- 8.16 This Permit must be renewed by submitting a completed Renewed Application Form for Environmental Authorisation to the Agency at least six months before this Permit expires, that is, no later than **July 31, 2026**.
- 8.17 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.
- 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 2023.04.25

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	REMAJIAH BHASKARAN
SIGNATURE	R Bhaskaran
DATE	2023/04/28
DESIGNATION	Company Secretary



