



**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

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.:	20211222_JSBME
Fee	Small (C2) - US\$175 per year
Fee Paid:	US\$875 for Five (5) years (July 2022 – June 2027)
Addressee:	Mr. Jason Bhaskaran Director J.S.B Investments Inc. Tract "D" Timehri Road, East Bank, Demerara.
Activity:	Operation of a Mechanical Workshop and Fuel Storage Facility (DIESEL ONLY)

J.S.B Investments 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 Operate a Mechanical Workshop and Fuel Storage Facility (DIESEL ONLY) at Tract "B", being Portion of Mining License No.19/99, All being Portion(s) of State Land, Situate Yarrowkabra, Eastern side of the Linden Soesdyke/ highway, Right Bank of Demerara River. hereinafter referred to as the "Project", in a manner indicated in the Application for Environmental Authorisation submitted on December 22, 2021, and subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, existing and/or forthcoming regulations, guidelines, best practices, and standards relevant to this project.

Terms and Conditions for Operation to be adhered to by Permit Holder, His Servants, Agents and/ or Sub- Contractors:

1.0 GENERAL OPERATION

- 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 An Operation and Maintenance Manual for the Project shall be developed and submitted to the EPA for review and approval by **July 31, 2022**. The Manual shall address all aspects of the on-going operation, including but not limited to the required maintenance and inspection schedule, loss monitoring/investigation procedures, emergency response and requirements for review of the Manual.
- 1.3 A register of the quantities of fuel and associated hazardous materials stored onsite shall be established and maintained. Registered information shall be maintained on site and made available to the EPA upon request.
- 1.4 Emergency spill clean-up kits shall be maintained at the Project site for response to spills. Kits shall contain absorbent materials, drain seals, and other appropriate tools for clean-up, and shall be readily available and clearly identified at the Project.
- 1.5 Fire prevention and control equipment shall be maintained in accordance with this **Guyana Fire Service Approval**.
- 1.6 Adhere to the requirements of **the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana**.

2.0 OPERATION OF WORKSHOP

- 2.1 Servicing, maintenance, and storage of heavy-duty equipment shall be conducted within the confines of the workshop and on an impervious base.
- 2.2 Contaminated wastewater from cleaning of greasy hands and equipment shall be collected and/or routed through the oil-water separator prior to discharge into the environment.
- 2.3 A drip pan shall be utilised to capture waste oil spills during servicing and maintenance activities.
- 2.4 Engine oil, grease, lubricants and other chemicals used at the Project shall be stored in accordance with the Safety Data Sheets (SDS). SDS shall be readily available and easily accessible.
- 2.5 Flammable materials shall be stored away from ignition sources. **'No Smoking'** signs shall be posted where such materials are handled and stored.
- 2.6 Washing and cleaning of equipment at the **workshop** is **strictly prohibited**.
- 2.7 Oil- contaminated waste from servicing and maintenance activities such as rags,



filters, etc. shall be collected, treated, and disposed of by an EPA Authorised Hazardous Waste Disposal Facility.

3.0 OPERATION OF A WASH BAY

- 3.1. The floors of the wash bay shall be of impervious material and elevated at a sloped angle, directing all wastewater towards the oil-water separator.
- 3.2. All wastewater from the washing of vehicles, tools, and equipment shall be channeled to the Oil-water Separator for treatment.

4.0 SPRAY PAINTING

- 4.1 The spray-painting booth shall be well ventilated with a fume extractor fan or other Best Available Technology (BAT) to provide a continuous, uniform, and evenly distributed supply of airflow throughout the spray-painting area to exhaust outlets.
- 4.2 Spray booth walls shall be smooth without edges to avoid the trapping of residue.
- 4.3 The Best Available Technology (BAT) shall be implemented to remove vapours from the spray booth so as to minimise the release of fugitive emissions to the environment.
- 4.4 **'NO SMOKING'** signs shall be placed outside the spray booth to reduce the risk of fire.
- 4.5 Spray-painting activities shall NOT be conducted outdoors. All spray-painting activities shall be conducted within the spray booth.
- 4.6 In the event that Dry Sanding is conducted at the Project site, the following shall be implemented:
 - i. Sanding shall only be conducted in designated areas to minimise the spread of waste;
 - ii. Dust shall be collected as sanding tasks are completed to prevent tracking outside the designated area;
 - iii. Avoid excessive sweeping to minimise dust emissions into the atmosphere; and
 - iv. Do not wash dust to the outside the workshop or into storm drains.
- 4.7 In the event that Wet Sanding is conducted at the Project, the following shall be implemented:
 - i. Sanding shall only be conducted in designated areas to minimise the spread of waste;
 - ii. Use a spray bottle to wet a small surface area and collect the waste in a drip pan; and
 - iii. Do not sweep or wash sanding dust to storm drains or areas outside the workshop.
- 4.8 Hazardous materials including paints and flammable solvents shall be stored within

secondary containment (bunded area) to minimise the spread/ release of spillage from the storage area.

- 4.9 Paint cans shall be tightly sealed and kept off the floor on pallets to reduce the occurrence of spills.
- 4.10 Compressed cylinders shall be stored and managed in accordance with supplier's recommendations. Air compressors should also be operated in accordance with the manufacturer's instructions.
- 4.11 Safety Data Sheets for paints, solvents, and other hazardous materials shall be readily available and easily accessible at all times at the Project site.
- 4.12 A register of the quantities of paints, solvents, and other hazardous materials stored at the Project shall be established. Registered information shall be maintained on-site and made available to the EPA upon request.

5.0 FUEL HANDLING AND STORAGE (DIESEL ONLY)

- 5.1 Adopt and comply with the National SOP "Guidance for the Design, Construction, Modification, and Maintenance of Petrol Filling Stations" and any forthcoming code of practice/guidelines pertaining to the operation of fuel storage.
- 5.2 Fuel shall at all times be stored above-ground and away from ignition sources. '**No Smoking**' signs shall be posted where fuel is handled or stored.
- 5.3 Secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid-tight to withstand hydrostatic pressure of any contained liquid when full. A summarized inspection report shall be kept and provided to the EPA upon request.
- 5.4 All secondary containment shall remain sealed and all piping must enter or exit the containment over the wall. Secondary containment shall provide total containment, and no part of the tank infrastructure (e.g., dispenser, filling hoses, and valves) shall protrude outside the containment.
- 5.5 Fuel storage tanks shall be visually inspected to verify their integrity. A summarised inspection report shall be kept and provided to the EPA upon request.
- 5.6 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimise corrosion of fuel tanks.
- 5.7 Maintenance and/ or repair of fittings, pipes, and hoses shall be in accordance with manufacturer's specifications. A summarised inspection report shall be kept and submitted to the EPA upon request.
- 5.8 Overfill protection shall be installed and maintained on all fuel tanks. This may include an automatic shut off device or an audible or visible overfill alarm.

5.9 The safe fill level shall be clearly identified on the gauge and set at 90% to prevent overfilling. In the event of overfilling, all discharges shall be released into the containment bund.

6.0 WATER QUALITY

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

6.2 There shall be no commingling of stormwater with water from the Project (workshop, wash bay, and secondary containment).

6.3 Discharge of untreated wastewater into the surrounding environment is **strictly prohibited.**

6.4 An oil-water separator shall be installed at the point of final discharge from the Project (Fuel Storage, Workshop & Wash Bay).

i. GPS coordinates for the final discharge point/s from the oil-water separator shall be submitted to the EPA by **August 31, 2022.**

6.5 All wastewater from the secondary containment of the fuel tank, wash bay and workshop shall be directed to the sedimentation pond for treatment.

6.6 Discharge from the oil-water separator 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 allowable limits should not be exceeded:

Parameter	Maximum Concentration	Units
Oil and Grease	Total Petroleum Hydrocarbon (TPH) < 40	mg/L

A water quality monitoring plan including but not limited to sampling point/s displayed on a map and frequency of sampling shall be submitted to the EPA for approval by **August 31, 2022.**

Monitoring of the parameters above shall be conducted at the approved sampling point/s and the results analysed at a GNBS certified laboratory or trained personnel using calibrated equipment. Analyses shall be submitted to the Agency as part of the Annual Report.

7.0 NOISE MANAGEMENT

- 7.1. Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000.**
- 7.2. 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:

Industrial Limits: **100 dB** during the daytime (06:00 h - 18:00 h)
 80 dB during the night-time (18:00 h - 06:00 h)

A noise quality monitoring plan shall be submitted to the EPA for approval by **August 31, 2022.** Noise monitoring shall be conducted in accordance with the approved plan and the results shall be submitted to the Agency upon request.

- 7.3 All machines/equipment shall be serviced in accordance to the manufacturer's specification to ensure efficiency and reduce the level of noise produced. A summarised maintenance report shall be maintained on-site and made available to the EPA upon request.
- 7.4 All equipment and machinery shall be placed upon foundations properly designed to ensure effective damping of vibrations.
- 7.5 All significant noise-producing equipment, such as generators, shall be equipped with appropriate silencers or mufflers and/or are 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.

8.0 WASTE MANAGEMENT

- 8.1 In accordance with the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site. Covered garbage receptacles shall be placed upon impervious bases at strategic locations, both within and outside the facility.
- 8.2 Burning solid waste is **strictly prohibited.** All solid waste shall be disposed of by an EPA Authorised Waste Disposal Company.
- 8.3 Good housekeeping, sanitary, and hygienic practices shall be maintained at all times. The facility's drains and surroundings shall be kept free of vegetation and litter.
- 8.4 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).

9.0 HAZARDOUS WASTE (Waste Oil, Oily Rags, Etc.) MANAGEMENT

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

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

- i. Metal Containers
- i. Solvents and Petroleum- based products;
- ii. Waste ink, Press-wash, Oil, and Oily Absorbents

9.3 Hazardous waste containers shall be labelled with the following:

- i. The words "**Hazardous Waste**"
- ii. The type of waste
- iii. Beginning accumulation date

9.4 Waste oil containers shall be labelled with the following:

- i. The words "**Waste Oil or "Used oil"**"
- ii. Beginning accumulation date

9.5 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.

9.6 Hazardous waste shall be disposed of and or treated by an EPA authorised Hazardous Waste Treatment 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.**

10.0 COMPLIANCE MONITORING AND REPORTING

10.1 Notify the Environmental Protection Agency within **one (1) hour** of the discovery of the occurrence of 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). Notification as prescribed by Section 19(3)(a) of the Environmental Protection Act, shall be submitted to the EPA within **twenty-four (24) hours** of the discovery of the incident occurring.

- 10.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 10.3 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.
- 10.4 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.
- 10.5 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).
- 10.6 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit on or before **March 31, each year**.
- 10.7 Report to the Agency of non-compliance 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.
- 10.8 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.
- 10.9 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.
- 10.10 Obtain Export Permit for each shipment of Used Lead Acid Batteries under the Basel Convention for Transboundary Movement of Hazardous Wastes and their Disposal.

11.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

- 11.1 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.
- 11.2 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.

- 11.3 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.
- 11.4 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.
- 11.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 11.3 and 11.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 11.6 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.
- 11.7 The Permit Holder shall be liable of any gross negligence or wilful 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.
- 11.8 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.
- 11.9 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.
- 11.10 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, the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 11.11 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



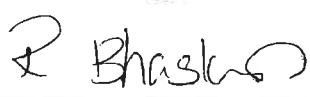
the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to assault, obstruct or hinder an authorised person in the execution of his/her duty under the said Act or its Regulations and the Permit Holder shall be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.

- 11.12 The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 11.13 **This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 11.14 The Environmental is effective for the period stipulated herein from **July 2022 to June 2027**.
- 11.15 This Environmental Permit shall remain valid until **June 30, 2027**, unless otherwise suspended, canceled, modified, or varied in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 11.16 This Permit shall be renewed by submitting a completed *Application Form for Environmental Authorisation* (Environmental Permit) to the Agency at least six months before this Permit expires, that is, no later than **December 31, 2026**.
- 11.17 Any late submission of renewal application(s) after the specified date as stated above, may require the Permit Holder to pay, in addition to the renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (\$2,000.00) per day for every day late**, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.
- 11.18 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 2022. 08. 05

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	Remaliah Bhaskaran
DESIGNATION	Company Secretary
SIGNATURE	
DATE	2022/08/11



