



**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 (Modified)

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

Reference No.:	20201113- WSFCE
Fees:	Large (C1) i.e., US\$1500 per year
Fee Paid:	US\$7500 for Five (5) years (April, 2022 to March, 2027)
Addressee:	Mr. Linden Edmondson Chief Executive Officer Itha-Ca Energy Partners Inc. (IEP) 112 Bonasika Street Section 'K', Campbellville Georgetown.
Activity:	Storage, Cutting & Transportation of Barite and Class G Cement.

Itha-Ca Energy Partners 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 Store, Cut & Transport Barite and Class G Cement at Parcels 757 - 758, Block XX111, Plantation Great Diamond, East Bank Demerara, hereinafter referred to as the "Project", in a manner indicated in the Application for Renewal of Environmental Authorisation submitted on February 25, 2022, and the Environmental Assessment and Management Plan (EAMP) submitted on July 31, 2022, and subject to the terms and conditions set forth herein under the Environmental Protection Act, existing and/or forthcoming regulations made under the said Act, and/or any applicable laws, guidelines, best practices and standards relevant to this project.

This is a Modification of the Environmental Permit, Reference No. 20201113-WSFCE issued on April 2022 and expiring on March 31, 2027.

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

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 The Project shall operate in accordance with the Environmental Assessment and Management Plan (EAMP) submitted to the EPA on **July 31, 2022**. All recommended corrective actions highlighted in the EAMP shall be completed by their respective timelines.
- 1.3 Fire prevention and control equipment shall be maintained in accordance with Guyana Fire Service Approval.
- 1.4 All employees and third parties under Itha-Ca Energy Partners Inc. direction's shall be made aware of the conditions of the Environmental Authorisation.
- 1.5 The Permit Holder shall provide training on good environmental practices. An annual training schedule shall be maintained and made available to the EPA upon request.
- 1.6 **The Permit Holder shall submit to the Agency upon receipt, an updated Central Housing and Planning Authority (CH&PA) approval for Storage, Cutting & Transportation of Barite and Class G Cement (Oil & Gas Production Chemicals).**
- 1.7 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:01, Laws, of Guyana.**

2.0 STORAGE OF OIL & GAS PRODUCTION CHEMICALS

- 2.1 Adhere to the **Pesticides and Toxic Chemicals Control Act 2000**.
- 2.2 Chemicals stored by the Project shall be in accordance with the List of Chemicals submitted to the EPA on **September 27, 2021**. Should this list be subject to change, an updated chemical list shall be submitted to the EPA.
- 2.3 A register of the quantities of Chemicals stored at the Project shall be established and maintained. Registered information shall be maintained on site and made available to the EPA upon request.
- 2.4 Chemical Storage Areas shall be clearly labeled with ***"Danger, Chemical Storage Area- Authorized Personnel Only"*** where applicable as a spill control measure.
- 2.5 Flammable materials shall be stored away from ignition sources. **'No Smoking'** signs shall be posted where these materials are handled and stored.
- 2.6 Secondary containment (bund area) shall be maintained around storage areas of all liquid chemicals. 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.
- 2.7 Chemicals shall be stored in accordance with the manufacturer's directions or Safety Data Sheet instructions.
- 2.8 Safety Data Sheets for all Chemicals shall be readily available and easily accessible at all times at Chemical Storage Areas.
- 2.9 Chemicals shall be segregated as indicated below to reduce the risk from mixed spillage and fire:
 - i. Bases separate from Flammables;
 - ii. Corrosives separate from Flammables;
 - iii. Oxides separate from all other chemicals;
 - iv. Organic reactives separate from inorganic reactive (metals); and
Any other stipulated standards for storage or segregation of chemicals
- 2.10 Chemical storage containers shall be clearly labeled in accordance with the Globally Harmonized System of Classification and Labeling. 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.
- 2.11 Chemical storage containers shall be inspected for signs of leakage or corrosion and damaged containers **must be** replaced **immediately**. Inspection reports shall be maintained on site and made available to the EPA upon request.

Chemicals **shall not** be stored on damaged, or inadequately secured racking or on damaged pallets to minimise the risk of spills.
- 2.12 Open storage of barite, cement and silica **is strictly prohibited**.
- 2.13 Liquid Chemicals stored within drums shall:
 - a) Be placed within banded storage to ensure any leaks or spills are immediately contained;
 - b) Be clearly marked with their contents, and any appropriate warning symbols;
 - c) Be regularly inspected to detect rust, leaks or other damage.
- 2.14 Chemicals stored in ton bags and totes shall:
 - a) Be protected from UV rays;

- b) Be covered to prevent exposure to dirt, dust, and moisture; and
 - c) Not hang over the side of pallets used for stacking.
- 2.15 Emergency spill clean-up kits shall be maintained 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.
- 2.16 Employees involved in the management of chemicals shall be trained on Hazardous Material Communication and Emergency Preparedness Response. Training reports shall be maintained on site and made available to the EPA upon request.
- 2.17 Third-party contractor(s) utilised for the transport of chemicals to and from the project shall be authorised by the EPA.

3.0 AIR QUALITY MANAGEMENT

- 3.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000.**

CUTTING, TRANSFER & TRANSPORT OF BARITE AND CLASS G CEMENT

- 3.2 All cutting and transfer of Barite and Class G Cement shall be conducted within the confines of the fully enclosed warehouse.
- 3.3 The cutting and transfer equipment shall at all times be operated in accordance with manufacturer's specification.
- 3.4 Standard Operating Procedures (SOPs) for the cutting and transfer process and operation of the equipment shall be established and maintained on site. These shall be made available to the EPA upon request.
- 3.5 Cutting and transfer equipment shall at all times be equipped with dust collectors to collect residual dust particles emitted during the cutting and transfer process.
- 3.6 Servicing and maintenance of all cutting and transfer equipment shall be conducted in accordance with manufacturer's specification. Maintenance records shall be maintained and made available to the EPA upon request.
- 3.7 Transport of Barite and Class G Cement to and from the Warehouse shall be conducted in accordance with the Project Summary submitted to the EPA on **March 20, 2022.**
- 3.8 Ambient air quality monitoring shall be conducted at the project's boundary and at source during normal and peak operations to assess the levels of the following air pollutants, in accordance with the WHO Air Quality Guidelines 2005 and US EPA National Ambient Air Quality standards (NAAQs):

Air Pollutant	Averaging Time	Maximum Permissible Level	Frequency
Carbon Monoxide	24 h	35ppm 4 µg/m ³	Quarterly
Nitrogen Dioxide	1 h 24 h Annual	200 µg/m ³ 25 µg/m ³ (Maximum) 10 µg/m ³	Quarterly
Sulphur Dioxide	1 h 24 h	196 µg/m ³ 20 µg/m ³	Quarterly
PM _{2.5}	24 h	25 µg/m ³	Quarterly
PM ₁₀	24h	50µg/m ³	Quarterly
Total Suspended Particles (TSP)	24h	20 µg/m ³	Bi-annual

Monitoring of the parameters above shall be conducted at the sampling point/s approved in the EAMP. Results shall be analysed at a GNBS-certified laboratory or by trained personnel using calibrated equipment. The duration of each monitoring session should correspond with the average time stipulated for the emission being monitored, and repeated three times. The analysis shall be submitted to the Agency as part of the Annual Report.

4.3 Comply with the point source limits and/or operational controls for dust collectors as described below:

- Use well-designed and operated baghouses
- Maintain dust collector inspection and preventive maintenance program
- Implement good housekeeping controls

4.4 In the event of equipment malfunction or **inefficiencies** which may result in visible emissions to air or, in the event of the malfunction leads to abnormal emissions, the operator shall:

- 4.4.1 Investigate and undertake remedial action **immediately**;
- 4.4.2 Adjust the process or activity to minimize those emissions; and
- 4.4.3 Record the events and actions taken. This shall be submitted in the annual report.

4.5 Dust collector system shall be maintained in accordance with manufacturer's specification. Information shall be made available to the Agency upon request.

4.6 Fugitive dust emissions shall be established and maintained during transferal of dust collected from the dust collection system to the designated storage container.

4.7 The project shall use low sulphur diesel to reduce Green House Gas emissions into the environment from vehicular fleet.

5.0 NOISE MANAGEMENT

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

5.2 Noise emissions shall be monitored **quarterly** 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 commercial limits listed below:

Commercial Limits: **80 dB** during the daytime (06:00 h – 18:00 h)
65 dB during the night-time (18:00 h – 06:00 h)

5.3 Noise shall be monitored at the project's boundary during normal and peak operations and the results analysed at GNBS-certified laboratory or by trained personnel using calibrated equipment. The duration of each monitoring session should correspond with the average time stipulated for the emission being monitored, and repeated three times. The analysis shall be submitted to the Agency as part of the **Annual Report.**

5.4 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.

5.5 Employees' exposure to noise level above **85dB** shall be limited.

5.5 Personal Protective Equipment (PPE) should be issued to employees when exposure to noise will be extended and above 85dB.

5.6 Provide suitable and frequent training to employees who operate sound making equipment to ensure that equipment is correctly operated in order to minimise staff exposure to noise above 85dB.

5.7 Conduct proper and regular maintenance of machinery and equipment in accordance with manufacturer's specifications to reduce noise emissions.

6.0 WATER QUALITY

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

6.2 Discharges from the Chemical Storage Bond is **strictly prohibited.**

6.3 Chemical spills occurring during handling and loading of barite and class G cement **shall be** immediately cleaned as guided by the respective Material Safety Data Sheet (MSDS) and disposed of an EPA authorised disposal facility.

7.0 WASTE MANAGEMENT

- 7.1 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 at strategic locations at the facility.
- 7.2 Burning of waste is **strictly prohibited**. All solid waste shall be disposed by an EPA Authorised Waste Disposal Company.
- 7.3 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).

8.0 COMPLIANCE MONITORING AND REPORTING

- 8.1 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 discovery of the incident occurring.
- 8.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 8.3 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.
- 8.4 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.
- 8.5 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).
- 8.6 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit on or before **March 31, each year**.
- 8.7 Report to the Agency any non-compliance(s) with the Environmental Permit (Renewed):
 - 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.

8.8 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.

8.9 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.

9.0 INSTITUTIONAL AUTHORITY/ LIABILITIES

9.1 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.

9.2 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.

9.3 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.

9.4 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.

9.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 9.3 and 9.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.


9.6 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.


9.7 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.

- 9.8** 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.
- 9.9** 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.
- 9.10** 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.
- 9.11** 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.
- 9.12** The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 9.13 This Environmental Permit (Modified) is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 9.14** This Environmental Permit (Modified) is effective for the period stipulated herein; **April, 2022 to March, 2027**
- 9.15** This Environmental Permit (Modified) shall remain valid until **March 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.
- 9.16** 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 **September 30, 2026**.


- 9.17** 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.
- 9.18** 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 2023-06-13

I hereby accept the above terms and conditions upon which this Environmental Permit (Modified) 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:	LINDEN EDMONDSON
DATE:	JUNE 19, 2023
SIGNATURE:	
DESIGNATION:	C.E.O

