



## 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.:	20220923-ACAPR
Fee:	Large (C3) - US\$2,500 per year
Fees Paid:	US\$7,500: Three (3) years (November 2022 to October 2025)

Addressee: Ms Yasmina Becker  
Environmental and Social Engineer  
Alya Construtora S.A.  
Lot 79 Robb Street,  
Bourda,  
Georgetown,  
Guyana.



**Activity: Support Activities for the Upgrade of the Linden to Mabura Hill Road Construction**

Alya Construtora S.A herein referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to rehabilitate and upgrade the Linden to Mabura Hill Road, hereinafter referred to as "the Project", in the manner indicated in the Application submitted on September 23, 2022, subject to the terms and conditions set forth herein under the Environmental Protection Act, existing or forthcoming regulations made under the said Act and/or any other applicable Laws of Guyana, best practices, guidelines and standards relevant to this project.

Terms and Conditions for Construction and Rehabilitation to be adhered to by the Permit Holder, his servants, agents and sub-contractors:

### 1.0 GENERAL

- 1.1 Make an application to the Agency to vary this Environmental Permit in instances where it becomes necessary to:

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- 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. Affect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 The Project shall be implemented in accordance to the plans submitted to the Agency, all specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised; evidence of which must be provided to the Agency.
- 1.3 Consult and coordinate with contractors/subcontractors and the relevant/affected utility companies, local government bodies, government organisations, such as, the Guyana Lands & Surveys Commission (GLSC), Neighbourhood Democratic Councils (NDCs), Guyana Water Inc. (GWI), Guyana Power and Light (GPL), Guyana Telephone and Telegraph Co Ltd (GTT), etc. to establish schedules and mechanisms for implementation of the Project. Additionally, ensure that utility providers and relevant authorities are consulted on the location of their facilities such as conduits and cables, etc. to ensure that appropriate actions are taken such as relocation of utility poles, markings, temporary shut off of utilities, etc. prior to the commencement of works.
- 1.4 Construction works shall not be executed between 22:00 hrs to 06:00 hrs, on any day, close to communal areas unless, approval is sought from the EPA. This requirement does not apply for large concrete pours or asphalt laying and earth removal where work in the early morning and late evening is required.
- 1.5 Construction support sites shall not be located in close proximity to sensitive receptors such as hospitals, geriatric homes, churches, schools, densely urbanized residential areas, recreational areas, etc.
- 1.6 Upon completion of works remove all barriers, equipment/material staging areas, and all support infrastructure, facilities and equipment in accordance with documents and plans submitted to the Agency.
- 1.7 Adhere to requirements of the **Occupational Health and Safety Act, Cap 99:10, Laws of Guyana.**
- 1.8 Employ or designate an employee to the role of an **Occupational Health and Safety (OHS)/Environmental Officer** to be responsible for the implementation and coordination of all safety requirements and terms and conditions stipulated in this Permit, as well as compliance monitoring with the preparation of all required reports to the EPA.



- 1.9 Ensure that First Aid Kits and Spill Containment Kits are kept at all primary work sites, and ensure that functional communication and transportation systems are in place to respond to emergencies.
- 1.10 Ensure training is conducted for all employees in the areas of Occupational Safety and Health, first aid response, emergency response and firefighting.
- 1.11 Eye wash fountains and emergency showers should be installed for emergency use.
- 1.12 Prepare and implement an **Emergency Response Plan/Evacuation Plan** and ensure that it is posted at strategic locations.

**NB:** All employees shall be aware of the Emergency Response Plan, and their respective duties and responsibilities.

## **2.0 TRAFFIC MANAGEMENT AND PUBLIC SAFETY**

- 2.1 Take all necessary precautions to minimise potential adverse impacts on public health and the environment in the transport, storage and handling of construction materials.
- 2.2 Make suitable provisions to accommodate vehicular and pedestrian traffic safely with minimum inconvenience through and around the construction site(s).
- 2.3 Traffic control devices, signage, guardrails and cautioning tape shall be installed at work sites. Speed limits shall be strictly enforced to minimise dust particles from becoming airborne.
- 2.4 Notify the public of the estimated duration of the project, estimated times of works, and expected difficulties, e.g. road closures and diversions, etc. that may be encountered as a result of construction at least two weeks in advance.
- 2.5 Access shall be provided to all properties adjacent to the project site for the duration of the construction period.
- 2.6 Precautionary measures should be taken for the safe haulage of the materials so that there is no spillover during transportation on the road networks.

## **3.0 WATER AND SOIL QUALITY MANAGEMENT**

- 3.1 Strictly comply with 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 shall 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 this type of project and should not be exceeded:

Total Suspended Solid (TSS) < 100 mg/L;

Total Dissolved Solid (TDS) < 40 mg/L;

Oil and Grease < 20 mg/L.

- 3.2 Avoid erosion, siltation and sedimentation of existing water bodies/drains within the vicinity of the project sites. Do not discharge wastewater from washout and/or cleanout of bitumen, concrete, paint, and other construction materials into waterways unless appropriately treated.
- 3.3 Install sediment controls along site perimeter areas that will receive effluent and remove sediments before it accumulates to half of the above-ground height of the perimeter control.
- 3.4 Construct and maintain drainage systems capable of handling the probable maximum precipitation event.
- 3.5 Protect susceptible sloped surfaces with suitable revetment and appropriate cover to ensure the stability of slopes and avoid erosion. Install down gradient sediment control systems (e.g., buffers, perimeter controls, exit point controls, storm drain inlet protection) that manage discharges from the initial site clearing, grading, excavating, and other earth-disturbing activities.
- 3.6 Limit the removal of vegetation to the minimum extent necessary for works to proceed. In areas where soils are not to be removed, the vegetation layer shall be maintained to protect the soil from erosion.
- 3.7 Stabilize exposed portions of the soil. Implement and maintain stabilization measures (e.g., seeding protected by erosion controls until vegetation is established, sodding, mulching, erosion control blankets, hydromulch, gravel) that minimize erosion from exposed portions of the site.
- 3.8 Locate piles outside of any natural buffers and away from any stormwater conveyances, drain inlets, and areas where stormwater flow is concentrated.
- 3.9 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used at any of the construction sites.
- 3.10 Store all chemicals in leak-proof containers that are kept under water-resistant cover and surrounded by secondary containment structures (e.g., spill berms, decks, spill containment pallets) to minimize the potential discharge of chemicals in stormwater and external waterways.



#### **4.0 AIR QUALITY MANAGEMENT AND NOISE ABATEMENT**

4.1 Strictly comply with the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations 2000**.

4.2 Noise emissions shall not exceed the Guyana National Bureau of Standards (GNBS) **Guidelines for Noise Emissions into the Environment** as stated below.

**Construction Limits:** 90 dB during the daytime (06:00 h - 18:00 h)

75 dB during the night-time (18:00 h - 06:00 h)

4.3 Locate all sound-making devices such as generators, machines, etc., away from sensitive receptors. Ensure that the exhaust stacks of generators are at a sufficient distance from communal areas to minimise adverse fumes/soot impacts to the contiguous areas.

4.4 Employ dust suppression methods such as watering, erecting dust screens/fences to control dust emissions from material stockpiles and other components of the development that would generate dust.

4.5 Stockpiles shall be relatively flat on top, and not exceed a height of eight (8) feet. Remove material from the stock pile on the leeward side to avoid the removal of material on the windward side.

4.6 Cover all potential sources of dust nuisance such as material stock piles, loaded transport trucks, maintenance of roads, etc to minimise impacts to sensitive receptors.

4.7 Monitor ambient air quality to determine compliance with the World Health Organisation (WHO) **Air Quality Guidelines for Particulate Matter in the Environment**, not exceeding the limits below:

**PM<sub>2.5</sub>:** 25 µg/m<sub>3</sub> 24-hour mean

**PM<sub>10</sub>:** 50 µg/m<sub>3</sub> 24-hour mean

4.8 Record, investigate and address complaints of excessive noise, dust and vibrations from the public promptly upon receipt. Maintain a record of all complaints received and the action taken.

#### **5.0 FUEL AND HAZARDOUS/ WASTE MANAGEMENT**

5.1 Strictly adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations 2013** and the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.

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- 5.2 Maintain good housekeeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 5.3 Waste management shall be executed in accordance with the approved Environmental Assessment and Management Plan. Additionally, promote proper solid waste management and disposal practices at the project site, place covered garbage receptacles at strategic locations around the project site.
- 5.4 Reuse waste material where practical such as land-filling material for the project site.
- 5.5 Dumping of waste into the surrounding environment is **strictly prohibited**. Waste, inclusive of waste oil and/or fuel, shall not be stored within 10 meters of any waterways.
- 5.6 Hazardous waste shall be treated and/or disposed by an EPA authorised Hazardous Waste Disposal Facility. All hazardous waste treatment and disposal shall be documented on a Waste Manifest Form which shall be submitted to the EPA as a component of the **Annual Report**.
- 5.7 Conduct refuelling, oil changes and maintenance of equipment on an impervious base.
- 5.8 Store all fuel waste above ground level to allow easy maintenance and leak detection.
- 5.9 Ensure that all chemicals used as part of the process are handled, stored and disposed of in accordance with the Material Safety Data Sheet (MSDS)/ Safety Data Sheet (SDS) and copies of MSDS/SDS sheets are located in central areas accessible to all staff on site and employees are aware of same.
- 5.10 Spill equipment shall be available and utilised for containing and mitigating spills from fuel, bitumen, waste oils, lubricants, curing compounds, concrete admixtures, paints etc.
- 5.11 Designate an area for the storage of fuel, used oil, washing detergents, sanitisers and other hazardous materials. Hazardous materials/ waste storage areas shall be clearly labelled and secured. The following warning signs shall be clearly posted:
  - a) "Hazardous Waste Storage Area"
  - b) Danger - "Authorised Personnel Only"
  - c) No eating, drinking or smoking
- 5.12 Hazardous waste shall be contained in bunded /kerbed storage areas. These areas shall adhere to the following requirements:
  - a) Be situated in low traffic areas;
  - b) No interceptor drains shall be constructed; and



- c) Be banded to provide 110% containment of the largest volume of hazardous materials stored therein.
- 5.13 Hazardous waste shall be stored in containers appropriate for the waste stream; that is:
  - a) Sealed Plastic Containers
    - i. Water-based waste
  - b) Sealed Metal Containers
    - i. Solvents and petroleum-based products
    - ii. Oil and oily absorbents
- 5.14 Hazardous waste/materials storage containers shall be inspected weekly for signs of leakage, deterioration or corrosion. Damaged containers must be replaced immediately. Inspection reports must be maintained and signed by the appropriately qualified inspecting officer and his/her supervisor.
- 5.15 Adequate toilets, waste disposal and sanitary facilities must be provided at all site(s).
- 5.16 Portable toilets must be installed in accordance with the Public Health Ordinance 1953;
- 5.17 Ensure all portable toilet systems are emptied by the contracted Waste Disposal Services on a regular basis. Waste collected from the portable toilet should be treated before disposal and at no time should the waste be disposed of in the surrounding environment.

## **6.0 ASPHALT PLANT**

- 6.1 At all times operate the Asphalt Plant in a manner that will cause minimal adverse impact on public health and the environment.
- 6.2 Maintain an enclosure for loading asphalt to mitigate the impact of fumes
- 6.3 During the Operation of the Asphalt Plant, ensure all fuel is stored away from ignition sources and have 'No Smoking' signs posted where fuel is handled or stored.
- 6.4 Ensure adequate post-hazard and warning information is clearly and visibly placed in the work area.
- 6.5 Comply with the *World Health Organisation (WHO) Air Quality Guidelines for Air pollutants in the Environment*, not exceeding the limits below, and not limited to the list of pollutants:
  - CO - 9 ppm (8h)
  - H<sub>2</sub>S – 10 ppm (8h)



- NO<sub>2</sub> - 0.1ppm
- VOC - 100 ppm

6.6 Ensure all wastewater from the operation is treated via the three-stage precipitation tank to remove sediments prior to discharge and the pH of the water is monitored before release.

## **7.0 FUEL STORAGE**

7.1 Store all fuel and waste oil in a secured designated area to prevent accidental release into the surrounding environment, especially in rainy conditions. The designated area should not be within 100 m of surrounding water bodies.

7.2 Maintain a perimeter drain, which must be adequately sloped to collect storm flow.

7.3 Containers containing oil/fuel of any sort must always be covered and placed in a bunded area that is able to contain 110% of the total capacity of that container.

7.4 Maintain an oil-water separator through which all effluent must pass before the final discharge.

7.5 Fuel deliveries shall be supervised and must be conducted within the forecourt containment area, or in an area with separate bunding.

7.6 Fuel delivery points shall be equipped with a collection trap to collect spilt fuel and divert it to a 'slop tank'.

7.7 A clear sign outlining spill clean-up procedures and emergency contact numbers shall be prominently displayed at the site at all times.

7.8 Oil/fuel contaminated absorbent materials shall be appropriately stored and disposed of by double wrapping in heavy duty garbage bags. All contaminated absorbent materials shall be treated by an Agency approved Hazardous Waste Treatment Facility prior to disposal at an Agency approved location.

## **8.0 COMPLIANCE MONITORING AND REPORTING**

8.1 Strictly comply with any lawful directions given by the Agency from time-to-time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.

8.2 Monitor the implementation of the conditions of this Environmental Permit, insofar as they involve adherence by employees and all third parties under your direction.


- 8.3 Report to the Agency any non-compliance(s) with this Environmental Permit.
- 8.3.1 Within **twenty-four (24) hours** of the time the Holder of this Environmental Permit becomes aware of the non-compliance, with the anticipated manner in which it may endanger human health or the environment may be impacted.
- 8.3.2 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.
- 8.4 Submit an **Annual Report** to the EPA at the end of the construction year (February - March) on your compliance with this Permit.
- 8.5 Notify the EPA within **twenty-four (24) hours** 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).
- 8.6 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.
- 8.7 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.
- 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 (Modified), 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 6.3 of this Environmental Permit (Modified), 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**, 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 is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.
- 9.14 This **Environmental Permit** is effective for the period stipulated herein, **November 2022 to October 2025**.
- 9.15 This Environmental Permit shall remain valid until **October 31, 2025**, unless otherwise suspended, cancelled, modified or varied, in accordance with 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 Environmental Permit shall be renewed by submitting "an Application for Renewal of Environmental Authorisation to the Agency at least six (6) months before this Permit expires, that is, no later than **April 30, 2025**."
- 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 fees, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2,000.00) 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 Environmental Permit shall render the Permit Holder liable to prosecution and to penalties prescribed under the **Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000**, including civil penalties and injunctive relief.

Signed by  on behalf of the Environmental Protection Agency.

  
**Kemraj Parsram**  
**Executive Director**

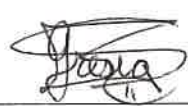
Date

2022 11.23

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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, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	Gresia Pamela Romero Salazar
SIGNATURE:	
DESIGNATION:	Integrated Management System Supervisor
DATE:	December 22 <sup>th</sup> , 2022.

