



**Environmental  
Protection  
Agency**

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## **Environmental Permit (Renewed)**

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

Reference No.:	20130517-AREHO
Fee:	Large (C1) – US\$ 1500 per year
Fees Paid:	US\$ 7500 for 5 years (July, 2022 to June, 2027)
Addressee:	Mr. Chunilall Baboolall Managing Director Aruwai Enterprise Inc. Lots 13 A Public Road, Houston East Bank Demerara, Guyana
Activity:	Operation of a Resort, Hotel, Restaurant, Pool and Bar

Mr. Chunilall Baboolall, trading and operating under the name Aruwai Enterprise Inc., hereinafter referred to as the “Permit Holder”, is hereby authorized in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to operate a Resort, Hotel, Restaurant, Pool and Bar located at Baracara Island, Lower Mazaruni River, Essequibo, hereinafter referred to as “the Project”, in the manner indicated in the application submitted on May 21, 2021, subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05 and any forthcoming regulations made under the said Act and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

This is a Renewal of the Environmental Permit, Reference Number: 20130517-AREHO, issued on July 29, 2015, which expired on June 30, 2016, pursuant to the Environmental Protection (Authorisations) Regulations, 2000.

**Terms and Conditions for Operation to be adhered to by the Permit Holder, his Servants, Agents and Sub-Contractors:**

### **1.0 OPERATION:**

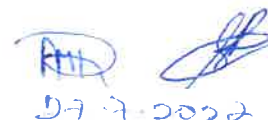
- 1.1 Make an application to the Agency to vary this Environmental Permit (Renewed) in instances where it becomes necessary to:
  - i. change the construction, operation, structure, or layout of the facility and all associated buildings;
  - ii. change equipment, machine, apparatus, mechanism, system or technology

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**Environmental Permit (Renewed) – Reference No.: 20130517-AREHO**

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- 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 Make all employees, and Third Parties under your direction, aware of the conditions of the Permit and provide training on good environmental management practices.
- 1.3 Assign a person to be responsible for all environmental matters of the facility and ensure the communication of the name, contact details and designation of such person is submitted to the Agency.
- 1.4 Comply with **Regulation 6(1) of the Environmental Protection (Expanded Polystyrene Ban) Regulations, 2015**, which states that “*no food service establishment shall sell or provide food for consumption, either on or off the said establishment’s premises, in expanded polystyrene food service products.*”
- 1.5 Maintain good house-keeping, sanitary and hygienic practices, and improvement in the aesthetic quality of the surroundings at all times.
- 1.6 All pest control applications shall be conducted by a pest control operative who is trained by the Pesticides and Toxic Chemicals Control Board (PTCCB).
- 1.7 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:01, Laws, of Guyana.**
- 1.8 Designate an area for the storage of the following:
- Fuel;
  - First Aid Kit(s); and
  - Washing detergents and Sanitizers (Jeyes Fluid, Pine Sol, etc.) for the facility.
- 1.9 Promote the conservation and efficient use of energy.
- 1.10 Renew Fire Safety Certificate annually and submit to Officers of the Agency upon request during compliance inspections and in the **Annual Report**.
- 1.10.1 Maintain adequate fire protection measures in accordance with this approval.
- 1.11 ~~Submit to the Agency, within **thirty (30) working days** of issuance of this Permit, a detailed Emergency Response Plan for the facility, including but not limited to the following:~~
- 1.11.1 ~~An Evacuation Plan for the hotel, which shall be posted in a conspicuous location on each floor.~~

  
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- 1.11.2 Employee training schedule on the emergency response protocol and their duties and responsibilities in executing the Evacuation Plan.
- 1.11.3 Clearly defined fire escape routes with emergency lighting and alarm systems in accordance with the requirements of the Guyana Fire Service.

## **2.0 AIR AND NOISE QUALITY MANAGEMENT**

- 2.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations, 2000**.
- 2.2 Comply with Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*, not exceeding the Commercial limits listed below, at a distance of 15 metres (50 feet) from the source or property boundary.

**Recreational limits:**     **100 dB** (Day-time (06:00 h-18:00 h))  
                                     **70 dB** (Night – time (18:00 h - 06:00 h))

- 2.3 Noisy activities and use of sound-making devices, shall not be permitted between the hours of **23:00h to 06:00h**, or unless permission is *otherwise* granted by the Environmental Protection Agency.
- 2.4 Enclose all sound-making devices, such as generators, in structures constructed with materials of good insulation properties (e.g., hollow concrete blocks, insulation boards, solid clay bricks, etc.); equip these devices with silencers/mufflers to reduce the noise level and placed them on foundations adequately designed to effectively dampen vibrations.
- 2.5 Service generator and air conditioning units to ensure efficiency, and to reduce air and noise emissions into the environment. A summarised maintenance report shall be kept and provided to the Agency upon request.
- 2.6 Exhaust stacks of the generator and stove shall be at an appropriate height, preferably at least two (2) metres above the tallest nearby building, to minimize adverse fumes/soot impacts to the contiguous areas.

## **3.0 WATER QUALITY**

- 3.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.
- 3.2 Monitor drinking water quality at the storage tanks according to the *World Health Organization (WHO) 2006, Guideline for Drinking Water Quality First Addendum to Third Edition, Volume One*, not exceeding the limits shown in the table below:

Microbiological Parameters	WHO Standards (2006)
E. coli	0/100 ml
Total Coliform	0/100 ml

- 3.3 Maintain the Integrity of the existing waterways at all times. Discharges into the environment should be in accordance with the Guyana National Bureau of Standards *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following are the allowable limits for the operation and should not be exceeded:
- pH 5.0 - 9.0;
  - Temperature <40°C;
  - Biological Oxygen Demand (BOD) <50 mg/L;
  - Chemical Oxygen Demand (COD) <250 mg/L;
  - Total Suspended Solid (TSS) <50 mg/L; and
  - Oil & Grease <10 mg/L.
- 3.4 Operate and maintain the swimming pool in a clean, safe and sanitary manner at all times. The bottom and sidewalls of the swimming pool shall be kept free of sediment and debris, and the pool water surface shall be kept free of visible floating matter daily, or as needed.
- 3.5 Ensure the pool attendant is equipped with adequate Personal Protective Equipment (PPE) when handling chemicals at all times.
- 3.6 A report on the recirculation and disposal of swimming pool water, shall be prepared clearly detailing the filtration, purification and dilution processes that occur prior to the discharge of water from swimming pool into the drains or environment. Records of tests readings for effluent must be submitted in the Annual Report and be available to Environmental Officers on request during compliance inspections.
- 3.7 Conduct daily swimming pool water quality testing for pH and chlorine. These records should be kept for submission in the Annual Report.
- 3.8 Maintain drainage systems capable of handling the probable maximum precipitation storm event.
- 3.9 Avoid excessive or inappropriate use of cleaning chemicals, use of biodegradable/water-based cleaning products is encouraged.
- 3.10 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used on site. Store all oils, fuel, paints and chemicals in a designated area, at least 10 meters away from water bodies.
- 3.11 Do not discharge or dump solid waste and/or trade effluent directly into receiving waters without prior treatment.
- 3.12 Direct all waste lines and drains carrying grease, fats, or culinary oil, or similar waste products from the Hotel's kitchen area into one or more grease trap interceptors. All

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required grease trap interceptors shall be maintained:

- To be durable, utilising corrosion-resistant materials and shall have water-tight covers securely fastened in place.
- To have a flow rate sufficient to handle the maximum demand of the connected system.
- To be installed at strategic locations to allow accessibility for convenient removal of the lid and internal contents.
- To have proper venting so that they do not become air bound.

3.13 Avoid excessive or inappropriate use of cleaning chemicals. Use of biodegradable/water-based cleaning products is encouraged.

3.14 Promote the conservation of water resources by minimising water consumed in the operation of the hotel, for example; the installation of low-flow showerheads (0.5 to 2 gpm) and sink aerators (0.25 gpm to 0.5 gpm for hand and face washing and 2.2 gpm for dish washing).

#### **4.0 WASTE MANAGEMENT**

4.1 Adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations, 2013.**

4.2 Promote proper solid waste management practices at the operation, provide covered garbage receptacles at strategic locations, both within and outside the facility.

4.3 Promote reuse and/or recycling of waste materials.

4.4 Promote the use of collected oils/fats for bio-fuel.

4.5 All solid waste shall be disposed at a landfill site/waste disposal site approved by the Neighbourhood Democratic Council.

4.6 Maintain a septic system on site at all times. The septic tank should not be located within 1.5 m of a building or property boundary and should be accessible for cleaning and de-sludging. Any modification to the Septic tanks must be in accordance with the Guyana National Bureau of Standards (GNBS) *Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems*.

#### **5.0 HAZARDOUS WASTE MANAGEMENT**

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

5.2 Prepare and submit to the Agency no later than **forty-five (45) days** after the end of the operating year, a report relating to the activities for the previous year. The report shall include:

- (a) the name, location and type of facility;
- (b) types and quantities (in metric units) of hazardous waste generated;
- (c) manner of storage, use, treatment standards/methods and disposal of these substances;
- (d) data concerning off-site shipments of waste, i.e., local disposal facility utilised, country to which hazardous waste is shipped, purpose of shipment and amount of waste shipped;
- (e) a summary of any accidents that may have occurred and any action taken;
- (f) any waste minimisation efforts undertaken by your facility for hazardous material/waste; and
- (g) any other matter the Agency may require.

The Agency considers all materials listed in **Schedules I and II** of the **Environmental Protection (Hazardous Wastes Management) Regulations, 2000**, to be hazardous.

5.3 Waste oil shall be disposed by an authorized Waste Disposal Company and/or reused as lubricant for chainsaw or other equipment/machinery.

5.4 Hazardous waste shall be stored in sealed metal containers, appropriate for the waste stream.

5.5 Hazardous waste containers shall be labelled with the following:

- i. The words **“Waste Oil or “Used oil” and “Sludge” and “Oily Rags”**; and
- ii. Beginning accumulation date.

5.6 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. Secondary containment capable of containing 110% of the largest volume therein.

5.7 Maintain an impervious secondary containment bund around all the fuel storage tanks; the bund shall have at least 110% containment capacity of the largest fuel tank.

5.8 Store waste oil (recovered from oil-water separator or from servicing of generators) in a covered, bunded area to minimise adverse impacts to the environment in the event of spillage.

5.9 Store all fuel away from ignition sources and have ‘No Smoking’ signs posted where fuel is handled or stored.

- 5.10 Treat and contain spills of even minor in nature with absorbent materials.
- 5.11 Take the necessary precautionary measures such as the use of leak-proof and tightly closed containers during the transport of fuel to the facility.
- 5.12 Record and include in a summary table the following information:
  - (a) Name and description (e.g., composition of a mixture) of the hazardous materials;
  - (b) Classification (e.g., code, class or division) of the hazardous materials;
  - (c) Quantity of hazardous materials used per month; and
  - (d) Characteristic(s) that make(s) the materials hazardous (e.g., flammability, toxicity).


## **6.0 EMERGENCY MANAGEMENT**

- 6.1 Maintain approval from Guyana Fire Service and adequate fire protection measures such as fire extinguishers and sand buckets in accordance with this approval.
- 6.2 Ensure all firefighting equipment are maintained and serviced regularly and provide training on the use of the equipment.
- 6.3 Maintain a regularly updated evacuation plan for the hotel. Ensure that the evacuation plan for each floor is posted in a conspicuous location.
- 6.4 Maintain an alarm system and ensure that all employees are aware of the emergency response protocol and their duties and responsibilities according to the evacuation plan.
- 6.5 Ensure that the fire escape routes are clearly defined and has emergency lighting in accordance with the requirements of the Guyana Fire Service.

## **7.0 COMPLIANCE MONITORING AND REPORTING**

- 7.1 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.
- 7.2 Monitor the implementation of the conditions of this Environmental Permit (Renewed) insofar as they involve adherence by employees and all Third Parties under your direction.
- 7.3 Report to the Agency of non-compliance(s) with this Environmental Permit (Renewed):
  - i. Within **twenty-four (24) hours** of the time the Holder of the Environmental Permit (Renewed) becomes aware of the non-compliance outlining the anticipated manner in which human health or the environment may be impacted.

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- ii. Within **seventy-two (72) hours** of the time the Holder of the Environmental Permit (Renewed) 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.
- 7.4 Notify the EPA within **twenty-four (24) hours** of the occurrence of any environmental emergencies such as a sudden onset of disaster, accident, natural, technological or human induced factors that cause or threaten to cause severe **environmental damage as well as harm to human health or livelihood.**
- 7.5 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the project.
- 7.6 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.
- 7.7 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit (Renewed) on or before **March 31, each year.**

#### **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 7.3 and 7.4 of this Environmental Permit (Renewed), pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.




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- 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, 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 (Renewed) is not the final consent; all relevant permissions should be obtained from other Regulatory Bodies for continued operation.**
- 8.14 This Environmental Permit (Renewed) is effective for the period stipulated herein, **July, 2022 to June, 2027.**
- 8.15 This Environmental Permit (Renewed) shall remain valid until **June 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.

- 8.16 This 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 **December 31, 2026**.
- 8.17 Any late submission of renewal application(s) after the specified date as stated above, shall 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 Guyana dollars (GYD\$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.
- 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**  
Executive Director

Date 2022. 07. 20

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I hereby accept the terms and conditions upon which this Environmental Permit (Renewed) is granted and agree to abide by the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME	Anita.M.Rambharose.
DESIGNATION	Managen.
SIGNATURE	AM Rambharose.
DATE	27.07.2022.



