



**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 the Environmental Protection (Authorisations) Regulations, 2000.

Reference No.:	20190219-TRFPE
Fees:	Medium (C2) US\$4000 Five (5) years (i.e., US\$800 per year)
Fees Paid:	US\$4000 (July, 2024 to June, 2029)

**Mr. Thameshwar Ramischand
Proprietor
R and S Fishing Enterprise
46 'J' Planation Friendship
East Bank Demerara**

Operation of the Seafood Processing Plant

R and S Fishing Enterprise, hereinafter referred to as the "Permit Holder", is hereby authorised 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 Seafood Processing Plant, located at 46 'J' Plantation Friendship, East Bank Demerara, hereinafter referred to as the "Project", in a manner indicated in the Renewal Application submitted on January 17, 2024, subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, any existing or forthcoming Regulations made under the said Act, and any existing or forthcoming written law, guidelines, best practices, standards, codes of practice, and other statutory or regulatory instruments relevant to this project.

This is a Renewal of Operation Permit, Reference No.: 20190219 – TRFPE, issued in September 2019, and which expired on April 30, 2024. This Environmental Permit (Renewed) is issued pursuant to the Environmental Protection (Authorisations) Regulations, 2000.

The Permit Holder, His Servant, Agents, and/or Sub-Contractors shall comply with the following Terms and Conditions for the Operation:

1.0 OPERATION:

1.1 The Permit Holder shall 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 Promote the conservation and efficient use of energy. Options for energy efficiency include but are not limited to those listed below:

- 1.2.1 Install Energy Star labeled appliances and replace incandescent lamps with LED fixtures and compact fluorescent lamps where possible to reduce energy consumption;
- 1.2.2 Implement switch-off programs and install sensors to turn off or power down lights and equipment when not in use; and
- 1.2.3 Improve insulation on heating or cooling systems and pipe work.

1.3 Maintain good house-keeping, sanitary and hygienic practices, and improvement in the aesthetic quality of the surroundings at all times.

2.0 EMPLOYEES OCCUPATIONAL SAFETY AND HEALTH

2.1 Ensure that employees are equipped with the Personal Protective Equipment (PPE's) relevant to employee duties during operating hours.

2.2 A First Aid kit, equipped in accordance with the Guyana Red Cross Standards must be located onsite at all times.

2.3 Make all employees/third-party contractors are aware of the conditions of the Environmental Permit (Renewed) and provide training on best environmental management practices.

2.4 Practice integrated pest control management. If pesticides are required, ensure that all pest control applications are conducted either by a Pest Control Operator (PCO) who is registered and certified by Pesticides and Toxic Chemicals Control Board (PTCCB) or an employee of the Processing Facility who is certified by the PTCCB as a pest control operative. Please note that if the employee is selected as the pest control

operative then the Fish processing plant should be licensed to conduct the pest control activity. In the case of an employee as a pest control operative, the following steps should be adhered to:

- 2.4.1 Ensure the pest control operative is equipped with personal protective equipment according to the Safety Data Sheets (SDS) during all pesticide applications including baiting, spraying and rinsing operation.
- 2.4.2 Use only pesticides approved for use in Guyana by the Pesticides and Toxic Chemicals Board (PTCCB). Pesticides should be mixed in accordance with their label directions.

3.0 AIR QUALITY AND NOISE MANAGEMENT

3.1 The Permit Holder shall comply with the provisions of the Environmental Protection (Air Quality) Regulations, 2000 and the Environmental Protection (Noise Management) Regulations, 2000.

3.2 Comply with Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment, not exceeding the residential limits listed below, at a distance of 15 metres (50 feet) from the source or property boundary, whichever is closer.

Residential Limits: **75 dB** Daytime Limits (6:00 h- 18:00 h)
 60 dB Nighttime limits (18:00h -6:00h)

- 3.3 Ensure all significant noise-producing equipment, e.g. generators, water treatment plant, are 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.
- 3.4 Ensure that the exhaust stack of the generator is of an appropriate height, preferably at least two (2) meters above the tallest building nearby, to minimize adverse fumes/soot impacts to the contiguous areas.
- 3.5 Ensure that all equipment and machinery are placed on a foundation properly designed to ensure effective damping of vibrations.
- 3.6 Ensure that the generators and machines/equipment are regularly serviced to ensure efficiency and reduce the level of noise produced.
- 3.7 Reduce the stock of raw materials, waste, and by-products and store them for short



periods of time only in a cold, closed, well-ventilated place to eliminate or reduce mal-odour that may emanate from the operation.

- 3.8 Keep all working and storage areas clean, empty and clean fat traps on a regular basis and cover all wastewater drains to reduce the escape of foul odours.

4.0 WATER QUALITY MANAGEMENT

- 4.1 **The Permit Holder shall comply with and adhere to the provisions of the Environmental Protection (Water Quality) Regulations, 2000.**

- 4.2 Ensure that discharges into the environment are in accordance with the Guyana National Bureau of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharges into the Environment* and the *IFC Environmental, Health and Safety Guidelines* and within the allowable limits for a Fish Processing Facility:

- pH (5.0-9.0);
- Total Suspended Solids (TSS <50 mg/L);
- Biological Oxygen Demand (BOD <50 mg/L);
- Chemical Oxygen Demand (COD <250 mg/L);
- Oil and Grease (< 10 mg/L);
- Total Nitrogen (< 10mg/L)
- Total Phosphorous (<0.2 mg/L);
- Residual Chlorine (<0.2 mg/L).

- 4.3 Monitor the parameters listed in condition 4.2 on a bi-annual basis (once in the rainy season and once in the dry season) at the point (s) of discharge into any waterway. Sampling should also be done upstream and downstream of the discharge point in the Demerara River. Submit the results to the Agency as a component of the **Annual Environmental Report required in** condition 9.3.
- 4.4 Not discharge untreated effluent directly into receiving waters. All effluent shall be treated to meet the limits set out in Condition 4.2 prior to discharge.
- 4.5 Promote the conservation of water resources by minimising water consumption and reusing where possible and sealing leaks promptly.
- 4.6 Monitor the daily consumption of water and provide the data to the EPA as a component of the **Annual Environmental Report required in** condition 9.3.
- 4.7 Install and maintain an oil-water separator through which effluent from the fuel storage/reservoir area must pass before final discharge. Oily sludge recovered from the interceptor upon cleaning should be disposed of in accordance with conditions identified under the Hazardous Waste management section.

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- 4.8 Ensure that the drainage system is kept free flowing and free of debris and vegetation to prevent stagnation of water and flooding. Regular cleaning of the drainage network and the immediate environment must be conducted.
- 4.9 Equip the floor drains and all other drainage outlet systems with grids and screens and/or traps to reduce the amount of solid organic material in the waste water.
- 4.10 Maintain the Sedimentation tank and provide overfilling protection to reduce prevent unscheduled discharge into the Demerara River.
- 4.11 Choose cleaning agents that do not have adverse impacts on water quality and the environment. Optimise their use through correct dosage and application.

5.0 WELL MANAGEMENT

- 5.1 **Monitor** the groundwater well for heavy metals, pH, Total Dissolved Solids (TDS), Nitrates once every five years and for bacteria on a bi-annual basis and ensure that the following parameters are in accordance with the World Health Organisation (WHO) Drinking Water Quality Standards (1993), Guidelines for potable water, not exceeding the limits shown in the table below:

Parameters Heavy metals	WHO Standards (1993) mg/L
Iron	0.3
Copper	2.0
Lead	0.01
Zinc	3.0
Manganese	0.4
Parameters to be tested	
pH	(6.0 - 8.5)ph units
Nitrates	50
Total Dissolved Solids (TDS)	500
Microbiological Parameters Tested twice yearly	WHO Standards (1993)
<i>E. coli</i>	0 count/100ml
Total coliform	0 count/100ml

- 5.2 Submit the data required in condition 5.1 to the Agency as a component of the



Environmental Annual Report required in condition 9.3.

- 5.3 Ensure that the top of the well casing is at least 0.3 meters above the ground to prevent surface water from draining into the well.
- 5.4 Inspect the well cap regularly for damaged, cracked or dislocated casings and make repairs as soon as issues are detected to prevent well contamination.
- 5.5 Ensure that pumps, piping and equipment are thoroughly disinfected before going back into the well and the well should be shock chlorinated after any repairs/modifications.
- 5.6 Avoid the storage/parking of the fuel truck near the well.

6.0 WASTE MANAGEMENT

- 6.1 **The Permit Holder shall comply with the provisions of the Environmental Protection (Litter Enforcement) Regulations, 2013,** where applicable.
- 6.2 Ensure that all wastes from the Seafood Processing Plant (i.e. viscera, fins, scales and fish heads and carapace, etc.) are collected and stored in covered, leak-proof containers. Waste should be removed from the site on a daily basis.
- 6.3 Refrain from dumping seafood waste into the Demerara River. Waste should be disposed of at the Haags Bosch Landfill, and/or given to farmers. If waste cannot be disposed of on the same day, it should be frozen until such time that it can be properly disposed.
- 6.4 Use dry cleaning techniques where possible, by scraping equipment before cleaning, pre-cleaning with air guns and cleaning floor spills with squeegees.
- 6.5 Maintain Septic Tank System(s) at all times which should be accessible for cleaning and de-sludging. Any modification to the Septic Tank (s) 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*.

7.0 HAZARDOUS MATERIALS/WASTES MANAGEMENT

- 7.1 **The Permit Holder shall comply with the provisions of the Environmental Protection (Water Hazardous Wastes Management) Regulations, 2000.**



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- 7.2 Establish and maintain a register of hazardous materials or chemicals used or generated by your operation. Submit to the Agency (soft and hard copies) no later than forty-five (45) days after the end of the operating year, a report relating to the activities for the previous calendar year including:
- (a) the name, location and type of facility;
 - (b) types and quantities (in metric units) of hazardous waste generated;
 - (c) manner of storage, use, any applied 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.
- 7.3 Waste oil generated from servicing of generators and any other machine must be labelled and stored in a bunded area, disposed by an approved waste oil disposal company (see list attached); or given to chainsaw operators.
- 7.4 Store all fuel away from ignition sources and have '**No Smoking**' signs posted where fuel is handled or stored.
- 7.5 Store fuel in a bunded area to minimise impacts to the environment in event of a spillage. The bunded area must be able to provide containment for 110% of the maximum volume of fuel within the containment area.
- 7.6 Ensure that oil/fuel containment absorbent materials are available for use in the event of an oil/fuel spill, and appropriately stored.
- 7.7 Refrain from draining fuel/lubricants including used oils of any quantity from equipment onto the ground or into waterways.
- 7.8 Ensure that oil/fuel containment absorbent materials are appropriately stored and disposed of by double wrapping in heavy duty garbage bags and disposed of at an approved waste disposal facility.
- 7.9 Install and maintain leak detection mechanisms on the fuel reservoir. The following measures can be taken: overflow alarms on tanks; gauging system; dipstick measurements; sensors on walls of tank and electric shut down buttons.

8.0 EMERGENCY MANAGEMENT

- 8.1 Prepare and submit to the Agency an Emergency Preparedness Plan, within three (3) months of the issuance of this Permit, for approval. The plan shall include:



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- Accident prevention procedures.
- First person response.
- Notification procedures.
- Location of clean-up equipment.
- And analysis of potential accident and responses.
- Material safety data sheets for all materials which could be spilled.

8.2 Provide adequate fire protection measures such as fire extinguishers and sand buckets in accordance with the Guyana Fire Service approval.

8.3 Ensure the Fire Safety Certificate is renewed yearly and all firefighting equipment are maintained and serviced regularly. Fire Safety Certificate should be submitted to Officers upon request during Compliance Inspections and in the **Annual Report**, required in condition 9.3.

9.0 COMPLIANCE MONITORING AND REPORTING

9.1 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.

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

9.3 Submit to the EPA, the **Environmental Annual Reports** on the status of the project, progress of the implementation of the monitoring activities and compliance with the conditions contained herein by **March 31** every year (Please see attached, the *Guidelines for the preparation of Environmental Annual Reports*).

9.4 Conform to all terms and conditions under which this Environmental Permit (Renewed) is granted and shall be liable for any loss or damage which arises from the project as a result of the Permit Holder's activities or breach of any term or condition of this Permit.

9.5 Inform the Agency prior to or **within thirty (30) days** of any change of name or ownership of the operation.

9.6 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.

9.7 Notify the EPA **within one (1) hour** of the occurrence of any environmental emergencies such as a sudden onset disaster, accident, natural, technological or

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human induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood.

9.8 Report to the Agency any non-compliance(s) with this Environmental Permit (Renewed) 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.

9.9 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.

10.0 INSTITUTIONAL AUTHORITY/LIABILITIES

10.1 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.

10.2 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.

10.3 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 minimise any resulting adverse effect, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

10.4 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.

10.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of the contravention of the conditions of this Environmental Permit (Renewed), pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

10.6 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

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to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.

- 10.7 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.
- 10.8 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.
- 10.9 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.
- 10.10 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 its regulations.
- 10.11 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.
- 10.12 The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 10.13 **This Environmental Permit (Renewed) is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 10.14 **This Environmental Permit (Renewed) is effective for the period stipulated herein, July 2024 to June 2029.**
- 10.15 **This Environmental Permit (Renewed) shall remain valid until June 30, 2029, unless otherwise suspended, cancelled, modified, or varied, in accordance**



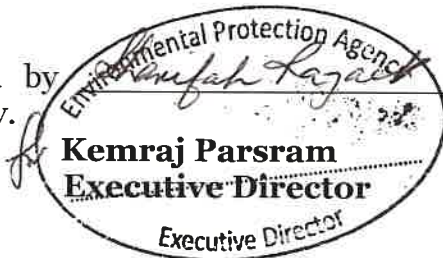
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with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana and the Environmental Protection (Authorisations) Regulations, 2000.

- 10.16 This **Environmental Permit (Renewed)** must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorisation* to the Agency at least six (6) months before this Permit expires, that is, no later than **January 31, 2029**.
- 10.17 Any late submission of renewal application after the specified date as stated above, the agency 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 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.
- 10.18 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 any other applicable Laws of Guyana.

Signed by
Agency.



on behalf of the Environmental Protection

Date 2024.07.26

A handwritten signature or mark in blue ink, consisting of a stylized 'S' or 'Z' shape.

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I hereby accept the above terms and conditions upon which this Environmental Permit (Renewed) is granted and agree to abide by the Environmental Protection Act, Cap20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000, and any existing or forthcoming regulations and standards made under this Act.

NAME:	Whitney Ramischand
DESIGNATION:	Quality Manager
SIGNATURE:	Ramischand
DATE:	31/7/2024



DBL #12065, dd: 2024-07-31

Rate: 210.45



Environmental Protection Agency

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File Copy

Date:

2024 07 31

No. 28637

Received From: Kand S Fishing Enterprise

The Sum of: Eight Hundred Forty One thousand, Eight Hundred \$841,800.00
Dollars

For: Environmental Permit (Renewed) medium-operation of a seafood processing
plant (July 2024 - June 2029)

PAID ☐ Cash ☒ Cheques ☐ Wire Transfer ☐ Balance due
Amt

FINANCE DIVISION

Signature: TADA

