



**Environmental  
Protection  
Agency**

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## Operation 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 :	20170811 -MPPGS
Fee :	Small (C2) - US\$ 875 (5 years), i.e. US\$175 per year
Fees Paid:	USD 875 (October, 2018 – September, 2023)
Addressee:	Mr Muneshwar Persaud 408, Coldingen East Coast Demerara.
Activity:	Operation of a Gas Station



Muneshwar Persaud, hereinafter referred to as the “Permit Holder” is hereby authorized in accordance with the Environmental Protection Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005 and the Environmental Protection (Authorisations) Regulations, 2000, to operate a Gas Station located at Plot Lettered ‘AB’, Plantation Enmore, East Coast Demerara, hereinafter referred to as the “Project” in a manner indicated in the Application submitted on August 11, 2017, subject to the terms and conditions set forth herein and any forthcoming regulations made under the said Environmental Protection Act and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

### Terms and Conditions for Construction and Operation by the Permit Holder:

#### 1. Infrastructure

- 1.1 Notify the Agency in writing of any proposed changes to the operation of the Gas Station **at least fourteen (14) days prior** to making the change. The notification shall contain a **description of the proposed change in operation**. It is not necessary to make such a notification if **an Application to vary** this permit has been made and the application contains a description of the proposed change. In this condition ‘**change in operation**’ means a change in the nature or functioning, or an extension, or any additional installation, which may have consequences for the environment. Changes to operation may include but not limited to the following:

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- Changes in construction, structure, or layout of the facility, plant or building;
  - Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility or operation; or
  - Any technology used or installed at the facility from which effluent may be discharged.
- 1.2 At all times operate the Gas Station in a manner that will cause minimal adverse impact on Public Health and the environment.
  - 1.3 Utilize the land in accordance with the Plan submitted to the Agency. All specifications of building locations, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised.
  - 1.4 Adopt and comply with the National Standard *"Guidance for the Design, Construction, Modification, and Maintenance of Petrol Filling Stations"* and any forthcoming code of practice/guidelines pertaining to the operation of service stations.
  - 1.5 Install a fuel dispenser on each fuel dispensing unit to minimise spills.
  - 1.6 Maintain a sump below the fuel dispensers to capture any spillage that may occur.
  - 1.7 Ensure that pipe entries under the pump sumps are sealed to prevent fuel leakage into ground and surface water.
  - 1.8 Route pipelines from tanks to offset filling points, dispensing equipment and vent pipes below the ground surface. Pipelines should not be located under buildings. Ensure free access to the pipeline system for easy maintenance.
  - 1.9 Construct and maintain an impervious secondary containment wall that should have the capacity to provide at least 110% containment around each fuel storage tank, creating a temporary holding area in the event of accidental spillage.
  - 1.10 Store all fuel away from ignition sources and have 'No Smoking' signs posted where fuel is handled or stored.
  - 1.11 Ensure that corrosion control measures are in place to prevent the corrosion of under-ground steel tanks and pipe work.
  - 1.12 Utilize silt traps and or other appropriate measures in the perimeter drainage system to ensure erosion and sedimentation control.
  - 1.13 Provide adequate fire protection measures in accordance with the requirements

of the Guyana Fire Service's (GFS).

## 2. Construction:

- 2.1. Remove all construction tools, equipment, machinery, and waste material from site on the completion of construction works.
- 2.2. Avoid any road traffic hazards or unnecessary inconveniences to the general public through appropriate planning and management at the construction site.
- 2.3. Identify suitable areas for materials stockpile and equipment. Ensure that no materials are stockpiled on road reserve.

## 3. Water Quality

- 3.1 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 (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following are the allowable limits for a Gas Station and should not be exceeded:

- pH 5.0-9.0,
- Temperature < 40 °C;
- Total Suspended Solid (TSS) < 100 mg/L; and
- Oil and Grease < 20 mg/L.

Further, monitor the above parameters on a biannual basis and submit results to the Agency.

- 3.2 Conduct baseline sampling and analysis of the above parameters at the final point of discharge of waste water from the facility.
- 3.3 Not discharge waste water effluent directly into receiving waters without prior treatment. An oil/water separator should be in place at a strategic location in the area through which all effluent must pass before final discharge into the environment. Recovered oil must be stored and disposed of in an environmentally acceptable manner.
- 3.4 Construct and maintain a suitable drainage system at the facility and ensure that the land is level and appropriately built up to avoid floods and contamination of the receiving waters.
- 3.5 Construct and maintain an interceptor drain, which must be adequately sloped to collect storm flow.
- 3.6 Ensure that all the surface drains are free-flowing and does not contain construction waste and vegetation. Regular cleaning of the drainage network and the immediate environment must be carried-out at all times.

- 3.7 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products. Store all oils, fuel and chemicals in a designated area.
- 3.8 Ensure that a connection for the discharge of fuel from Fuel/oil tank trucks to the fuel storage tanks are properly connected and is done under strict guidance and that the shut-off mechanism is activated in the event of a spill.
- 3.9 Install leak detection mechanisms. At least two (2) of the following measures should be taken: overflow alarms on tanks; gauging system; dipstick measurements; sensors on wall tanks and an electric shut down button.

#### 4. Noise Abatement And Air Quality Management

- 4.1 Comply with the Environmental Protection Air Quality and the Environmental Protection (Noise Management) Regulations No. 9 and No. 8 of 2000, respectively.
- 4.2 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*. Sound levels from noise-making devices should not exceed the limits below, at a distance of 15 metres (50 ft) from the source or property boundary, whichever is closer.  
  
Residential Limits: **75 dB** during the daytime (06:00 h - 18:00 h)  
**60 B** during the night-time (18:00 h - 06:00 h)
- 4.3 Ensure that sound-making devices, such as, generators are suitably enclosed and constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.) and are equipped with silencers or mufflers to reduce the noise level and are placed on foundation properly designed to ensure effective damping of vibrations. Additionally, ensure adequate equipment maintenance is provided and obsolete tools and equipment are replaced.
- 4.4 Ensure that the exhaust stack of the generator (s) is at least 2 metres above the tallest building nearby, to minimise adverse fumes/soot impacts to the contiguous areas.
- 4.5 Ensure all equipment and machinery are placed on foundation properly designed to ensure effective damping of vibrations.
- 4.6 Ensure that all construction activities are done in such a manner to prevent/avoid adverse noise nuisance to the surrounding environment.
- 4.7 Completely cover or enclose all construction material in a manner that prevents the material from blowing, dropping, sifting, leaking, or otherwise escaping from the vehicle.



- 4.8 Ensure that appropriate measures are in place to minimize the impacts of air borne emissions from vehicles offloading and/or loading building materials.
- 4.9 Implement a vapor recovery system for the offloading of bulk fuel, on site. Measures to reduce loading off loading emissions include selection of alternate loading methods and application of vapor recovery equipment.
- 4.10 Comply 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>:** 10 µg/m<sup>3</sup> annual mean  
25 µg/m<sup>3</sup> 24-hour mean

**PM<sub>10</sub>:** 20 µg/m<sup>3</sup> annual mean  
50 µg/m<sup>3</sup> 24-hour mean

- 4.11 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- 9ppm (8h)
  - H<sub>2</sub>S-10ppm (8h)
  - NO<sub>2</sub>-0.1ppm
  - VOC-100 ppm
- 4.12 Conduct Air Quality Monitoring for the parameter listed in conditions 4.10 and 4.11 on a quarterly basis. Proposed sample points should be submitted to the EPA for approval prior to monitoring and a monitoring report should be submitted to the Agency as part submission of the required annual report referred Monitoring and Compliance to in condition.

## 5. Hazardous Waste / Materials Management

- 5.1 Adhere to the provisions of the Environmental Protection (Hazardous Wastes Management) Regulations, 2000.
- 5.1.1 Establish and maintain a register of hazardous materials or chemicals used or generated as a result of the operation of the gas Station.
- 5.1.2 There shall be no release of any pollutants (i.e. fuel, waste oil) to ground water or soil from permitted installation. Accidental release of pollutants to soil and ground water should be recorded and be reported within twenty-four (24) hrs to the Agency for further investigation.
- 5.1.3 Where applicable, 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 identification information of the facility.
- b) Type and quantities of hazardous waste generated.
- c) Data concerning off-site shipments of waste.
- d) Any applied treatment standards.
- e) A summary of any accidents that may have occurred and any action taken.
- f) Any waste minimization efforts undertaken by the generator.
- g) A pollution prevention plan for the facility.
- h) Any other matter the Agency may require.

The Agency considers all materials listed in Schedule I and II of the Environmental Protection (Hazardous Wastes Management) Regulations, 2000, to be hazardous. **Please see attached list of Hazardous Wastes to be controlled.**

5.1.4 Submit the report of activities for the previous year in electronic format acceptable to the Agency along with a hard copy which should be signed by the holder of the Authorization.

5.1.5 Prepare and submit to the Agency an **Emergency Preparedness Plan** for approval by the Agency. The plan shall include:

- a) The accident prevention procedures.
- b) First person response.
- c) Notification procedures.
- d) Location of clean-up equipment.
- e) An analysis of potential accident and responses.
- f) Material safety data sheets for all materials which could be spilled.

5.1.6 Keep on site books, documents, records or things showing, as the case may be:

- a) The amount of hazardous wastes generated, stored, treated, transported or disposed of.
- b) The dates pertinent to the activities referred to above.
- c) Signed copies of manifests.
- d) Records of test results, waste analyses, permit and standard conditions required by any authorization.
- e) And any information as the Agency may require.

5.1.7 Ensure that oil/fuel containment absorbent materials are appropriately stored in slop tanks.

5.1.8 Store any contaminated fuel in closed leak proof containers and label slop tanks 'Waste Gasoline or Diesel Fuel'.

5.1.9 Ensure that an appropriate spill containment kit is located at the Gas Station.

- 5.1.10 The kit should contain absorbent material to absorb spilt oil and other liquids.
- 5.1.11 Store used oil in a covered, bunded area to minimise adverse impacts to the environment in the event of spillage. The bunded area must be able to provide containment for the maximum volume of used oil stored on site.
- 5.1.12 Ensure all pumps, underground tanks and dispensers are inspected regularly for leak detection.
- 5.1.13 Label, store and dispose or reuse oil and batteries in an environmentally acceptable manner.
- 5.1.14 Ensure that oil/fuel containment adsorbent materials are appropriately stored and disposed of in a manner approved by the Agency.
- 5.1.15 Store all fuel waste above ground level to allow easy maintenance and leak detection.
- 5.1.16 Construct and maintain an impervious secondary containment wall that should have the capacity to provide at least 110% containment around each fuel storage tank, creating a temporary holding area in event of accidental spillage.

## **6. Waste Management**

- 6.1 Ensure good sanitation and solid waste disposal practices on site; covered garbage receptacles must be placed at strategic locations at the facility. Wastes must be collected and disposed of at an approved waste disposal facility.
- 6.2 Ensure effective management of recoverable materials and that all waste generated by the project is in accordance with the EP Act, Cap 20:05 part V s. 19(1)(2)(3)(4): s. 20(1)(2).
- 6.3 Promote waste minimisation and the reuse and/or recycling of waste material and other suitable materials when practical.
- 6.4 Establish a well maintained septic tank system on site. Septic tanks must be installed and fitted with a sand and charcoal filter bed or an acceptable treatment design technology in accordance with the Guyana National Bureau of Standards Code of Practice for Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems.
- 6.5 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 waste be disposed of in the Atlantic Ocean or the surrounding environment.
- 6.6 Adequately dispose, reuse and/or recycle all waste materials generated from the construction and operation of the Gas Station.

- 6.7 Avoid pollution of the nearby water resource. Solid and liquid waste shall not be discharged directly into watercourse, without prior treatment.

## 7. 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 Operation Permit, insofar as they involve adherence by employees and all third parties under your direction.
- 7.3 Conform to all terms and conditions under which this Permit 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.
- 7.4 Report to the Agency of non-compliance with the Operation Permit:
- 7.4.1 Within **twenty-four (24) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
- 7.4.2 Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance, its cause and the period of non-compliance including exact dates and time.
- 7.4.3 Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.
- 7.5 Submit to the EPA, the Petroleum License from the Guyana Energy Agency (GEA) within **one (1) week** of issuance.
- 7.6 Submit **Environmental Annual Report** to the EPA on or before **March 31** every year on your compliance with this Permit (Please see attached, *Guidelines for the Preparation of Environmental Annual Reports*).
- 7.7 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.
- 7.8 Comply with any lawful directions given by the EPA from time-to-time in furtherance of the implementation of any international or other obligations for the environmental protection of Guyana.
- 7.9 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the operation.



- 7.10 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.
- 7.11 Notify the EPA within **twenty-four (24)** of the occurrence of any environmental emergencies such as a sudden onset 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.

## 8. Institutional Authority

- 8.1 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 8.2 The EPA reserves the right to review and/or amend the conditions and fees attached to this Permit, which also includes the review and/or amendment of permit fees in consideration of any changes in fee structure as determined by the Agency for projects of this nature.
- 8.3 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 8.4 The Permit Holder 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.
- 8.5 This Operation Permit is not the final consent; all relevant permissions should be obtained from other regulatory bodies for continued operation.
- 8.6 The Permit Holder shall be strictly liable for any loss or damage to the environment through any act caused intentionally or recklessly, through the adverse effect of any discharge or release, or cause or permit the entry of pollution, contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by any Environmental Authorisation which are attributed to the Project. S. 19(1) EP Act, Cap. 20:05.
- 8.7 The Permit Holder shall be guilty of any offence in accordance with s. 39(1), (2), (3), (4) of the EP Act, Cap. 20:05, which states respectively –“every person who causes material or serious environmental harm by polluting the environment intentionally or recklessly and with the knowledge that material and/or serious environmental harm will or might result is guilty of an offence and shall be liable to the penalties prescribed under the Act.”
- 8.8 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed project. (Part V, s. 19(3) (e)) EP Act Cap. 20:05.

- 8.9 The Permit Holder shall be responsible for the payment of all costs related to the assessment of damage and costs for the independent assessor (s).
- 8.10 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any Complainant seeking loss or damage for negligence as a result of the Permit Holder's lack of due care and diligence.
- 8.11 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an enforcement notice in accordance with s. 26 of the EP Act Cap. 20:05.
- 8.12 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any Complainant seeking loss or damage for negligence as a result of the Permit Holder lack of due care and diligence.
- 8.13 Where it appears to the Agency (EPA) that the Permit Holder is engage in any activity that may pose serious threat to natural resources or serious pollution of the Environment or any damage to public health, issue to the Permit Holder a Prohibition Notice Order to immediately cease the offending activity. S. 27 EP Act, Cap. 20:05. Where the Permit Holder in accordance with s. 19(3) is found liable for the contaminant or for the process involving the contaminant or who causes or permits a discharge as aforementioned in relation to above, shall:
- Immediately notify the Agency of the discharge;
  - Concentration and amount of contaminant;
  - Circumstances of the discharge; and
  - What action he/she has taken or intends to take to restore the natural environment; and
  - Be liable to pay for the cost of an independent investigation into the discharge.
- 8.15 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to civil penalties and/or injunctive reliefs prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act 2005, and the Environmental Protection (Authorisations) Regulations 2000, including under any existing and forthcoming regulations made under the said Act or any other applicable Laws of Guyana.
- 8.16 This Operation Permit is valid for the period stipulated herein **(October, 2018 to September, 2023)**.
- 8.17 This Operation Permit shall remain valid until **September 30, 2023**, unless otherwise suspended or revoked in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

8.18 This Operation Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorisation* to the Agency at least six months before this Permit expires, that is, no later than **April 30, 2023**.

Signed by Shanfah Lazack on behalf of the Environmental Protection Agency.

*Jr*

Dr Vincent Adams  
Executive Director

Date: 2018.10.17

I hereby accept the terms and conditions upon which this Operation Permit 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	MUNESHVAR PERSAUD
DESIGNATION	OWNER
DATE	17/10/2018
SIGNATURE	Muneshwar Persaud

