



**Environmental
Protection
Agency**

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Construction 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.:	20190103-RRMPS
Fee:	Medium (C1) - US\$500 (1 year) i.e. US\$500 per year
Fee Paid:	US\$500 (June, 2019 to May, 2020)

Addressee(s): Mr Roopan Ramotar
General Manager
Mora Point Pump Station
Mahaicony Creek
Region 05, Guyana.



Activity: Construction of Pump Station

Mr Roopan Ramotar, trading and operating under the name, Mora Point Pump Station, herein after 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 construct a Pump Station located at Mahaicony Creek, Region 05, hereinafter referred to as "the Project", in the manner indicated in the Application submitted on March 01, 2019, subject to the terms and conditions set forth herein and in any existing or 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 Operation to be adhered to by the Permit Holder:

1.0 CONSTRUCTION

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes in the construction of the facility **at least 14 days before making the change**. The notification shall contain a **description of the proposed change in construction**. In this condition, 'change in operation' means a change in the nature, or an extension, of the installation, which may have

consequences for the environment, including but not limited to the following:

I. Changes in construction, structure, or layout of the facility and all associated buildings.

II. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility.

III. Any technology used or installed for construction of the facility from which effluent may be discharged.

1.2 Undertake the construction of the Pump station in such a manner so as to avoid negative impacts to the environment and in keeping with the conditions of this Permit.

1.3 Ensure that all third parties adhere to the requirements and conditions of this Permit.

1.4 Make all employees aware of the conditions of this Permit and provide training on good environment management practices.

1.5 Take necessary precautions to avoid erosion, siltation and sedimentation that would negatively impact the Mahaicony Creek during construction.

1.6 Identify suitable areas for material stockpile and equipment during construction.

1.7 Remove all construction tools, equipment, machinery, and waste material from site on the completion of construction works.

1.8 Cover all trucks used to transport construction materials to the site.

1.9 Ensure that workers, at all times, wear protective gear such as protective head gear, construction boots, goggles, dust mask, etc. where necessary.

1.10 Assign a person to be responsible for all Environmental matters during construction of the facility.

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

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Management) Regulations, 2000.

- 2.2 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.

Construction limits: **90dB** (Day-time (06:00 h-18:00 h))
 75dB (Night – time (18:00 h - 06:00 h))

- 2.3 Use of sound-making devices; construction works and other noisy activities, shall not be permitted between the hours of 23:00 h to 06:00 h, unless permission is *otherwise* granted by the Environmental Protection Agency.
- 2.4 Ensure all significant noise-producing equipment, e.g. generators, etc. 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 GNBS requirement.
- 2.5 Ensure that the generator is regularly serviced to ensure efficiency and reduce the level of noise produced.
- 2.6 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.
- 2.7 Ensure that the exhaust stack of the generator and stove are of an appropriate height, preferably at least two (2) metres above the tallest building nearby, to minimize adverse fumes/soot impacts to the contiguous areas.
- 2.8 Take necessary precautions to avoid or reduce vibrations on surrounding premises.

3.0 WATER QUALITY

- 3.1 Adhere to 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 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;
 - Turbidity (>50 NTU)
 - Total Suspended Solid (TSS) <50 mg/L; and

Oil & Grease < 10 mg/L.

- 3.3 Conduct water quality monitoring of effluent generated due to construction of pump station for the parameters identified above, before commencing construction and after construction is completed and submit reports to the EPA. Sample points should include the final discharge point(s) from the facility, as well as an upstream and downstream sample from the receiving body of water.
- 3.4 Do not discharge trade effluent directly into receiving waters without prior treatment.
- 3.5 An oil-water separator should be installed at a strategic location, through which all effluent must pass before final discharge.
- 3.6 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products. Store all oils, fuel, paints and chemicals in a designated area, at least 10 m away from watercourses on an impervious base to minimize adverse impacts to the environment in the event of spillage.
- 3.7 Not discharge or dump solid waste and/or trade effluent directly into the receiving waters.
- 3.8 Store temporary stockpiles of construction materials including excavated waste in a secured, designated area, and protected from wind and water erosion. Materials should not be placed within 10 m of a watercourse or drain.
- 3.9 Construct and maintain drainage systems capable of handling the probable maximum precipitation storm event.

4.0 FUEL AND WASTE MANAGEMENT

- 4.1 Adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations, 2013.**
- 4.2 Maintain good house-keeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 4.3 Ensure that the drainage is kept free-flowing and free of debris. Regular cleaning of the drainage network must be maintained.
- 4.4 Provide covered garbage receptacles at strategic locations, at the site of construction. At all times, garbage receptacles, should be emptied, cleaned and maintained on a regular basis, to prevent the fall or flow of garbage in the surrounding environment and attraction of rodents and other vermin.

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- 4.5 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*.
- 4.6 Adhere to the provisions of **the Environmental Protection (Hazardous Wastes Management) Regulations, 2000**.
- 4.7 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 (please see attached form). 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, 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; any waste minimisation efforts undertaken by your facility for hazardous material/waste; and any other matter the Agency may require.
 - (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.

- 4.8 In the event that waste oil (recovered from the oil-water separator or from servicing of generators) is stored, it should be stored in a covered, bunded area to minimise adverse impacts to the environment in the event of spillage.
- 4.9 Store all fuel away from ignition sources and have 'No Smoking' signs posted where fuel is handled or stored.
- 4.10 Dispose of all waste oil in accordance with the Environmental Guidelines, 2011 for the 'Removal, Treatment and Disposal of Oily Sludge' (attached) or reuse waste oil as lubricant for chainsaw or other equipment/machinery.
- 4.11 Ensure that oil/fuel containment absorbent materials are appropriately stored in a concrete-based structure and away from water ways and disposed by double wrapping in heavy duty garbage bags and disposed of at an approved solid waste disposal site.

4.12 Hazardous contaminated absorbent pads can be disposed of at an incineration operation.

4.13 Maintain an impervious secondary containment bund which should have at least 110% containment capacity around all fuel storage tanks, creating a temporary holding area in the event of spillage.

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

4.15 Limit access to hazardous waste storage areas to employees who are authorised and have received proper training.

4.16 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).

4.17 Treat and contain spills of even a minor nature with absorbent materials.

4.18 Designate an area for the storage of the following:

- Fuel;
- First Aid Kit(s); and
- Washing detergents; and Sanitizers (J's Fluid, Pine Sol, etc.) for the facility.

5.0 EMERGENCY MANAGEMENT

5.1 Maintain approval from Guyana Fire Service and adequate fire protection measures such as fire extinguishers and sand buckets in accordance with this approval.

5.2 Ensure all firefighting equipment are maintained and serviced regularly and provide training on the use of the equipment.

5.3 Submit to the Agency, within **thirty 30 working days** of issuance of this Permit, a written Emergency Evacuation Plan for the constructed building.

5.4 Maintain a regularly updated evacuation plan for the constructed building. Ensure that the evacuation plan is posted in a conspicuous location.

5.5 Install an alarm system and ensure that all employees are aware of the emergency

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response protocol and their duties and responsibilities according to the evacuation plan.

- 5.6 Ensure that the fire escape routes are clearly defined and has emergency lighting in accordance with the requirements of the Guyana Fire Service.

6.0 COMPLIANCE MONITORING AND REPORTING

- 6.1 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees.
- 6.2 Make all Employees, and Third parties under your direction, aware of the condition of the Permit and provide training on good environmental practices.
- 6.3 Notify the Agency in writing of any change of name or ownership of the Permit Holder's facility within **thirty (30) days** after the change occurs.
- 6.4 Notify the Agency within **twenty one (21) days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 6.5 Notify the Agency of non-compliance with this permit upon becoming aware of any violation:
- (i) Within **twenty-four (24) hours** of the time the Holder of the environmental authorisation becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
 - (ii) 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.
 - (iii) 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.
- 6.6 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.
- 6.7 Submit **Annual Reports** to the EPA on the progress of the operation and compliance with the conditions under which this Permit was granted on or before **March 31** each year.

7.0 INSTITUTIONAL AUTHORITY/LIABILITIES

- 7.1 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 Construction Permit which are attributed to the Project, pursuant to s. 39 and s. 19 (1) and (2) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

7.2 The Permit holder shall be guilty of an offence in accordance with s. 39 (1), (2), (3) and (4) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, which attribute liability for causing 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. If found guilty of an offence the Permit Holder shall be liable to the penalties prescribed under the said Act.

7.3 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed Project (See: s. 19 (3)(e) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.)

7.4 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 or discharge, spill, contaminant fluids, oil or lubricants from the fuel storage.

7.5 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.

7.6 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 Environmental Protection Act, Cap. 20:05, Laws of Guyana.

7.7 Where it appears to the Agency that the Permit Holder is engaged 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, which may order him to immediately cease the offending activity, in accordance with s. 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

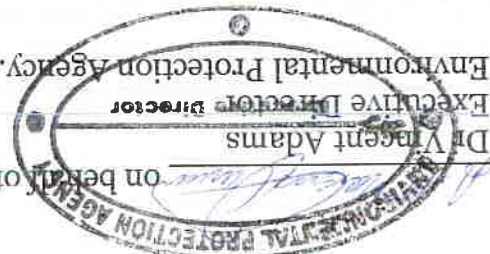
7.8 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05, and the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.

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- 7.9 The EPA reserves the right to review/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.
- 7.10 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. Pursuant to s.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.
- 7.11 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 7.12 The Permit Holder is obligated to ensure that the operation is permitted by other relevant authorities.
- 7.13 This Construction Permit is effective for the period stipulated herein, **June, 2019 to May, 2020**.
- 7.14 This **Construction Permit** shall remain valid until **May 31, 2020**, 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.
- 7.15 This 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 **November 30, 2019**.
- 7.16 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 (\$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.
- 7.17 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 Regulations, including under any existing and forthcoming regulations made under the said Act or any other applicable Laws of Guyana.

Signed by _____ on behalf of the Environmental Protection Agency.



Date _____

July 24, 2019

I hereby accept the above Terms and Conditions upon which this 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 existing or forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	DAVID RAMROOF
SIGNATURE:	David Ramroof
DATE:	24 th July, 2019.



2019