



**Environmental
Protection
Agency**

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Environmental Permit

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

Reference No.:	20230309-HCTCL
Fee:	Medium (C2) - US\$800 per year
Fees Paid:	US\$ 800 for one (1) year –June 2024 to May 2025

Addressee: Mr. Harrychand Tulsi
Manager
General Engineering Supplies & Services Inc.
Lot 2, Coldingen
East Coast Demerara.

Activity: Rehabilitation of Liliendaal Pump Station.

Harrychand Tulsi, herein referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to Rehabilitate the Liliendaal Pump Station, at Liliendaal Drainage Catchment Area, East Coast Demerara hereinafter referred to as "the Project", in a manner indicated in the Application dated March 09, 2023, subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, existing and/or forthcoming regulations made under the said Act, and/or any applicable laws, best practices, guidelines and standards relevant to this project.

The Permit Holder, his Servants, Agents, and Sub-Contractors shall comply with the following Terms and Conditions of this Environmental Permit:

1.0 GENERAL

- 1.1 The Permit Holder shall make an application to the Agency to vary this Environmental Permit in instances where it becomes necessary to:
- Change the construction, operation, structure, or layout of the facility and all associated buildings;
 - Change equipment, machine, apparatus, mechanism, system or technology serving the facility;

- iii. Change the position and design of any outlet at the point or points of discharge of effluents; or
 - iv. Affect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
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- 1.2 The Permit Holder shall adhere to the requirements of the **Occupational Health and Safety Act, Cap 99:10, Laws of Guyana.**
 - 1.3 The Permit Holder shall employ or designate an employee to the role of an Occupational Health and Safety (OHS)/Environmental Officer to be responsible for the implementation and coordination of all safety requirements and terms and conditions stipulated in this Permit, as well as compliance monitoring with the preparation of all required reports.
 - 1.4 The Permit Holder shall make all employees and third parties under your direction aware of the conditions of the Environmental Authorisation and provide training on good environmental practices.
 - 1.5 The Permit Holder shall monitor the working environment at all times for occupational hazards relevant to the specific construction and operation activities of the facility.
 - 1.6 The Permit Holder shall implement in accordance with plans, specifications of location, pathways, reserve, and boundary lines must be adhered to unless otherwise authorized; evidence of which must be provided to the Agency.
 - 1.7 The Permit Holder shall not execute construction works between 18:00 hrs. to 06:00 hrs., on any day, close to communal areas unless, approval is sought from the EPA. This requirement does not apply for large concrete pours and earth removal where work in the early morning and late evening is required.
 - 1.8 The Permit Holder shall avoid any road traffic hazards or unnecessary inconveniences to the general public through appropriate planning and management of the construction site.
 - 1.9 The Permit Holder shall ensure that appropriate barriers, equipment/material staging areas, and all supporting infrastructure, facilities and equipment associated within the project site are provided, maintained and removed upon completion of works. Once works are completed, rehabilitation measures must be implemented to restore any disturbances to the environment.
 - 1.10 The Permit Holder shall ensure access to all properties adjacent to the site for the duration of the project construction. Place warning signs strategically and create walk paths to avoid accidents with individuals in the nearby communities.

2.0 WATER AND SOIL QUALITY MANAGEMENT

- 2.1 The Permit Holder shall strictly comply with the provisions of the **Environmental Protection (Water Quality) Regulations 2000**.
- 2.2 The Permit Holder shall avoid erosion, siltation and sedimentation of existing water bodies within the vicinity of the project site.
- 2.3 The Permit Holder shall install sediment controls along site perimeter to receive sediments from surface runoff.
- 2.4 The Permit Holder shall remove sediments before accumulating to half of the above-ground height of the perimeter control.
- 2.5 The Permit Holder shall avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used at the project site during construction and operation. Ensure that all oils, fuel, paints and chemicals are stored in a designated area, at least 10 meters away from waterways.
- 2.6 The Permit Holder shall not discharge or dump solid waste and/or effluent directly into receiving waters without prior treatment.
- 2.7 The Permit Holder shall maintain drainage systems capable of handling the probable maximum precipitation storm event.
- 2.8 The Permit Holder shall cover temporary stockpiles and excavated waste in a secured designated area.
- 2.9 The Permit Holder shall provide and maintain adequate sanitary facilities, such as portable toilets or construct a septic tank system, for employees. The septic tank shall not be located within 1.5 m of a building or property boundary and shall 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.

3.0 NOISE ABATEMENT AND AIR QUALITY MANAGEMENT

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

- 3.2 The Permit Holder shall monitor noise emissions to determine compliance with the **Guyana National Bureau of Standards (GNBS)** Guidelines for Noise Emissions into the Environment. Sound levels from noise-making devices shall not exceed the limits below, at a distance of 15 metres (50 ft) from the source or property boundary, whichever is closer.

During Construction

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

During Operation

- **Residential Limits:** 75 dB during the daytime (06:00 h – 18:00 h)
60 dB during the night-time (18:00 h – 06:00 h)

- 3.3 The Permit Holder shall carry out all construction and operational activities in a manner to avoid, minimise and control all potential noise disturbance to the surrounding environment.

- 3.4 The Permit Holder shall place all sound-making devices, such as generators, on foundations properly designed to ensure effective damping of vibrations; housed in enclosures constructed using materials with good insulation properties (e.g., hollow concrete blocks, insulation boards, solid clay bricks, etc.); and equipped with silencers/mufflers to reduce the noise level. Equipment must be consistently maintained, and those that become obsolete must be replaced.

- 3.5 The Permit Holder shall minimize adverse fumes/soot impacts to the contiguous areas by installing the exhaust stack of generators on-site, at least 2 meters above the tallest building nearby.

- 3.6 The Permit Holder shall comply with the *World Health Organisation (WHO) Air Quality Guidelines for Particulate Matter in the Environment*, not exceeding the limits below:

PM_{2.5}: 25 µg/m³ 24-hour mean

PM₁₀: 50 µg/m³ 24-hour mean

- 3.7 The Permit Holder shall employ dust suppression methods, such as, watering or erecting dust screens/fences to control dust emissions from material stockpiles and other dust-generating components of the project.

- 3.8 The Permit Holder shall locate stockpiles downwind to avoid materials being transported by wind to sensitive receptors (e.g., residences, schools, etc.). Confine loading and offloading activities, as far as possible, to this location.

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- 3.9 The Permit Holder shall minimize the potential for particles to become airborne by keeping drop heights at a minimum when loading and/or offloading materials such as sand, aggregates, etc.
- 3.10 The Permit Holder shall cover materials susceptible to wind erosion e.g., sand at all times during storage and transport (to and from the construction site) to prevent material loss and reduce emission of particulate matter into the environment.
- 3.11 The Permit Holder shall keep engine idling during on-loading and off-loading activities to a minimum during construction.
- 3.12 The Permit Holder shall conduct Air Quality Monitoring for the parameters listed in Condition 3.6 on an **annual basis**. Submit proposed sample points to the EPA for approval prior to the commencement of monitoring. Prepare a monitoring report and include it in the **Environmental Annual Report** submitted to the Agency.
- 3.13 The Permit Holder shall record, and promptly investigate and address complaints of excessive noise, dust and vibrations from the public.

4.0 HAZARDOUS AND NON-HAZARDOUS WASTE MANAGEMENT

- 4.1 The Permit Holder shall strictly adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations 2013** and the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.
- 4.2 The Permit Holder shall maintain good housekeeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 4.3 The Permit Holder shall promote proper solid waste management and disposal practices on site.
 - i. The project site and surrounding areas shall not be littered with any form of wood, concrete, plastic, glass and metallic waste or any form of waste that will affect humans, flora and fauna and related biodiversity;
 - ii. Place covered garbage receptacles at strategic locations;
 - iii. Dispose of solid waste at an approved waste management facility, dumping around the project site is strictly **prohibited**; and
 - iv. Reuse, recycle and compost waste material as much as practicable.
- 4.4 The Permit Holder shall conduct refueling, oil changes and maintenance of equipment on an impervious base.
- 4.5 The Permit Holder shall designate an area for the storage of fuel, used oil, washing detergents, sanitizers and other hazardous materials. Hazardous materials/ waste storage areas shall be clearly labelled and secured. The following warning signs shall be

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clearly posted:

- i. "Hazardous Waste Storage Area"
- ii. Danger - "Authorised Personnel Only"
- iii. No eating, drinking or smoking

4.6 The Permit Holder Shall contain hazardous waste in bunded/kerbed storage areas. These areas shall adhere to the following requirements:

- i. Be situated in low traffic areas;
- ii. No interceptor drains shall be constructed; and
- iii. Be bunded to provide 110% containment of the largest volume of hazardous materials stored therein.

4.7 The Permit Holder Shall store hazardous waste in containers appropriate for the waste stream; that is:

- i. Sealed Plastic Containers
 - a. Water-based waste
- ii. Sealed Metal Containers
 - a. Solvents and petroleum-based products
 - b. Oil and oily absorbents

4.8 The Permit Holder Shall ensure hazardous waste/materials storage containers inspected weekly for signs of leakage, deterioration or corrosion, and damaged containers shall be replaced immediately. Inspection reports shall be maintained and signed by a qualified inspecting officer and his/her supervisor.

4.9 The Permit Holder Shall ensure the sewage disposal system is well-maintained on-site.

4.10 The Permit Holder Shall designate an area for the storage of the following:

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

5.0 EMERGENCY MANAGEMENT

5.1 The Permit Holder shall obtain and maintain approval from the Guyana Fire Service and provide fire protection measures such as fire extinguishers and sand buckets.

5.2 A first aid kit equipped according to the Guyana Red Cross standards must be located on-site at times. Additionally, communication and transportation systems must be in place to respond to emergencies.

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- 5.3 The Permit Holder shall ensure the annual renewal of the Fire Safety Certificate and that all firefighting equipment is maintained and serviced regularly. Fire Safety Certificate should be submitted to officers of the Agency upon request during compliance inspection and in the **Environmental Annual Report**.
- 5.4 The Permit Holder shall ensure all employees are trained in the use of firefighting equipment, such as fire extinguishers and understand the firefighting protocol.
- 5.5 The Permit Holder shall prepare and maintain a training file for employees which is to be made available to EPA Officers upon request during a Compliance Inspection.

6.0 COMPLIANCE MONITORING AND REPORTING

- 6.1 The Permit Holder shall 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.
- 6.2 The Permit Holder shall monitor the implementation of the conditions of this Environmental Permit, insofar as they involve adherence by employees and all third parties under your direction.
- 6.3 The Permit Holder shall report to the Agency any **non-compliance(s)** with this **Environmental Permit**:
 - 6.3.1 Within **twenty-four (24) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance and the anticipated manner in which it may endanger human health or the environment.
 - 6.3.2 Within **seventy-two (72) hours**, submit to the Agency a written report containing:
 - a. a description of the non-compliance;
 - b. its cause;
 - c. the period of non-compliance, including exact dates and times, or the predicted time it is expected to continue if not yet addressed; and
 - d. the corrective measures taken or planned taken to correct the non-compliance.
- 6.4 The Permit Holder shall submit **Environmental Annual Reports** to the EPA on or before **March 31** every year on your compliance with this Permit.
- 6.5 The Permit Holder shall 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.

- 6.6 The Permit Holder shall inform the Agency before or within **thirty (30) days** of any change of name or ownership of the project.
- 6.7 The Permit Holder shall 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.

7.0 INSTITUTIONAL AUTHORITY/LIABILITIES

- 7.1 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 the Environmental Protection (Authorisations) Regulations, 2000.
- 7.2 The Permit Holder, His Servants and/or Agents shall at all times, allow entry to the permitted project/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.
- 7.3 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 7.4 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, contaminants in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Environmental 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.
- 7.5 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).
- 7.6 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, of any contaminant in any amount, concentration, ultrahazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to

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penalties prescribed under the Environmental Protection Act and Regulations.

- 7.7 The Permit Holder shall be liable for 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.
- 7.8 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 Section 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.9 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, 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.
- 7.10 This Environmental Permit is effective for the period stipulated herein, **June 2024 to May 2025**.
- 7.11 This **Environmental Permit** shall remain valid until **May 31, 2025**, 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 and the Environmental Protection (Authorisations) Regulations, 2000.
- 7.12 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, its Regulations and other applicable laws of Guyana.

Signed by _____ on behalf of the Environmental Protection Agency.



Date 20.6.2024

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I hereby accept the above 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, the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	HARRYCHAND TULSI
SIGNATURE:	<i>Harrychand Tulsi</i>
DESIGNATION:	Manager
DATE:	21/06/2024.



dated 31 Jan 2025

Date: 210.45



Environmental Protection Agency

Head Office - Ganges Street, Sophia, Georgetown, Guyana.

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Linden (LEN Building, Mackenzie) - Tel (592) 444-2313

File Copy

20240621

Date:

No. 28256

Received From: General Engineering Services Inc.

The Sum of: One Hundred Sixty Eight Thousand Three Hundred and Sixty Dollars \$168,360.00

For: Environmental Permit medium FIVE (5) individual pump station

Cash Cheques ☒ Wire Transfer ☐

Balance due

Amt. \$

PAID

Signature: *[Signature]*

(June 2024 - May 2025)

