



**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.:	20200817-PCSBM
Fee:	Medium (C2) US\$ 800 per year
Fees Paid	US\$1,600 for two (2) years (December, 2020 – November, 2022 )
Addressee:	<b>Rabindranath Muneshwer</b> Executive Director Guyana Shore Base Inc. 45-47 Water Street Georgetown
Activity:	Construction of Storage Facility for Oilfield Products



Mr. Rabindranauth Muneshwer, trading and operating under the name "Guyana Shore Base Inc.", 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 Storage Facility for Oilfield Products at Tract GIL2 & AM1, Rome, East Bank Demerara, hereinafter referred to as "the Project", in the manner indicated in the Application submitted on August 17, 2020, and subject to the terms and conditions set forth herein under the Environmental Protection Act, existing and/or forthcoming regulations made under the said Act, and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

**Terms and Conditions for the Construction to be adhered to by the Permit Holder, His Servants, Agents and/or Sub-Contractors:**

### 1.0 PRE- CONSTRUCTION

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes in the Construction of a **Storage Facility for Oilfield Products** at **least fourteen (14) days before making the changes**. The notification shall contain a **description of the proposed change in construction**. It is not necessary to make such a notification if **an Application to vary** this permit has been made and

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the Application contains a description of the proposed change. '**Change in construction**' means a change in the nature or functioning, or an extension of the installation, which may be harmful to 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 at the facility from which effluent may be discharged.
- iv) Any other variance prescribed by Condition 20(3) of the Environmental Protection (Authorisations) Regulations.

- 1.2 Employees shall at all times be equipped with appropriate protective gear during construction such as protective head gear, respirators, safety vests, construction boots, etc.
- 1.3 A well-equipped first aid kit shall be provided at the work site, including functional communication and transportation systems to respond to emergencies.
- 1.4 Areas for construction material stockpiles and equipment shall be clearly identified. Stockpile areas shall be downwind to avoid materials being dispersed by wind to sensitive areas. Loading and offloading activities shall, as far as possible, also be confined to this location.
- 1.5 Stockpiles shall not exceed **two (2) meters** in height.
- 1.6 Sediment control structures such as sediment traps and screens shall be installed to prevent the inflow of sediments to surface water.
- 1.7 Clear signage and security measures shall be implemented to keep unauthorized persons from accessing restricted areas.
- 1.8 The location of areas not to be disturbed prior to construction shall be clearly delineated and identified on ground. Land clearing and disturbance must be limited to areas where immediate work is taking place.
- 1.9 The land shall be utilized in accordance with the Site Plan & Elevation Views Design submitted to the Agency. All specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised.

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- 1.10 All employees, contractors, sub-contractors and agents of the Permit Holder shall be made aware of the Conditions of this Construction Permit and shall be provided with training on good environmental management practices.
- 1.11 All oils, lubricants and fuel shall be handled, managed (including refueling of equipment and machinery) and stored on impervious surfaces within secondary contained areas.
- 1.12 Fuel storage area shall have secondary containment with a storage capacity of 110% of the largest storage tank/container.
- 1.13 An Officer shall be designated with the responsibility to oversee the implementation, monitoring and reporting on the conditions of this Construction Permit; whose name, designation and contact details shall be communicated to the Agency within two (2) weeks of the issuance of this Permit, and maintained thereafter.

**2.0 CONSTRUCTION**

- 2.1 Secondary containment (bund area) to be constructed shall possess the following characteristics:
  - 2.1.1 The capacity shall be at least 110% of the volume of the largest storage container in which liquid material are to be stored;
  - 2.1.2 The walls shall be constructed of earth, steel, concrete or solid masonry.
  - 2.1.3 The liners/flooring shall be constructed of coated 'PVC' liners, asphalt or concrete and designed to withstand foreseeable loading conditions.
- 2.2 The Best Available Technology (BAT) shall be installed that will allow Hazardous materials to be stored according to compatibility. For Example
  - a. Hazardous Materials separate from Non- Hazardous Materials
  - b. Acids separate from Caustics
  - c. Acids separate from Bases,
  - d. Acids separate from Flammables
  - e. Bases separate from Flammables,
  - f. Oxidizers from Compressed Flammable Gases
  - g. Corrosives separate from Flammables
  - h. Oxides separate from all other chemicals
  - i. Organic reactive separate from inorganic reactive (metals)
- 2.3 Eye wash station and emergency showers shall be constructed and shall be engineered in a manner that will allow ease of access and functionality.

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### 3.0 NOISE ABATEMENT AND AIR QUALITY MANAGEMENT

- 3.1 Comply with the provisions of the Environmental Protection (**Air Quality**) Regulations, 2000 and the Environmental Protection (**Noise Management**) Regulations, 2000.
- 3.2 Temporary stockpiles of construction materials, including excavated waste shall be stored in a secured, designated area, and protected from wind and water erosion. Materials shall not be placed within **3m** of any canal, drain or river, providing the installment of a silt fence adequately designed and constructed to retain the stockpile. Temporary stockpiles shall not exceed twenty-four (24) hours before being removed, or transferred to the appropriate designated stockpile areas established by Condition 1.4.
- 3.3 A silt fence shall be installed **at least 3 meters** from the boundary of any canal, drain or river to prevent any possible contamination from construction material. The height of the silt fence shall be **no less than 3 meters**; the distance between fence posts shall **not exceed 1.2 meters (4 ft.)**, and fence posts shall be installed at a depth of **at least 0.6 meters (24 inches)**. Fence posts shall be of sturdy timber material to support the silt fence, and the industrial material used between the fence posts must be adequate to retain the stockpile and any possible seepage.
- 3.4 All material stockpiles, including dusty materials transported to, from and within the site shall be enclosed or covered to reduce air borne emissions. Where this is not practical owing to frequent usage, employ wet suppression methods such as watering or erect dust screens/fences to control emissions.
- 3.5 Where feasible, pre-mixed, 'ready-mixed' concrete shall be used to reduce dust emissions caused by on- site preparation.
- 3.6 All dusty activities on the construction site shall be re-scheduled where possible if high-wind conditions are encountered.
- 3.7 All mechanical equipment shall be operated and maintained in accordance with manufacturer's specifications at all times. Additionally, ensure that mechanical equipment work at their optimal levels to minimise atmospheric emissions.
- 3.8 All construction equipment and machinery shall be inspected weekly and maintained to avoid mechanical failures and abnormal noise pollution. Logs and records signed by the appropriate inspecting personnel shall be maintained and made available for inspection by the EPA upon request.
- 3.9 The Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions

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into the Environment shall be complied with. Sound levels from noise-making devices should not exceed the limits below during construction, at a distance of 15 metres (50ft) from the source or property boundary, whichever is closer.

**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)

**Limit the time of driving piles to daylight hours, when people are less affected by vibration and noise nuisance.**

- 3.10 All sound-making devices, such as generators, shall be suitably enclosed 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. In addition, ensure all equipment and machinery are placed on a foundation properly designed to ensure effective damping of vibrations.
- 3.11 Construction works shall not be conducted between **23:00 hrs and 06:00 hrs** daily.

#### **4.0 WATER QUALITY MANAGEMENT**

- 4.1 Comply with the **Environmental Protection (Water Quality) Regulations, 2000.**
- 4.2 All point-source discharges related to construction activities shall be **Strictly Prohibited.**
- 4.3 All cutting of wood and mixing of cement shall be conducted at least 15m from waterways to minimise pollution.
- 4.4 All oils, fuel, paints and chemicals shall be stored in a designated area, at least 15m away from all watercourses.
- 4.5 A concrete drainage network shall be constructed along the perimeter of the construction site. This drainage system must be capable of handling the probable maximum precipitation during a storm event and the land must be levelled and adequately built up to avoid floods.
- 4.6 All drainage systems shall be kept flowing and free of construction materials and vegetation.
- 4.7 Should there be any contamination or siltation of any watercourse or drain during

construction, procedures for the proper removal, reversal, restoration and clearing shall be implemented.

## **5.0 WASTE MANAGEMENT**

- 5.1 Comply with the **Environmental Protection (Litter Prevention) Regulations, 2013.**
- 5.2 The municipal solid waste storage area shall be clearly labeled and kept clean at all times.
- 5.3 Waste receptacles with secured lids, such as mini-skip bins and wind- proof litter receptors shall be installed at the site. Waste materials shall not be burnt on site.
- 5.4 Waste receptacles shall be clearly labeled "Non-Hazardous" Waste. The label shall include the type /stream of non-hazardous waste stored within.
- 5.5 Municipal solid wastes and inert construction and demolition waste (C&D) shall be collected and disposed of at an authorised waste disposal site and by an authorised waste disposal company.
- 5.6 Promote waste minimisation and the reuse of waste materials and other suitable materials where practical, particularly, topsoil/overburden, steel and metal waste and other inert construction materials.
- 5.7 Construct and maintain a septic tank system at the Facility. 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.*

## **6.0 HAZARDOUS WASTE MANAGEMENT**

- 6.1 Comply with the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000.**
- 6.2 All hazardous waste shall be stored in containers appropriate for the waste stream. That is:

### **a) Plastic Containers**

- i. Water- based wastes
- ii. Fountain Solutions, Pre- Press

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**b) Metal Containers**

- i. Solvents and Petroleum- based products
- ii. Waste ink, Press wash, Oil and Oily Absorbents

6.3 All hazardous waste containers shall be labelled with the following:

- i. The words "hazardous waste"
- ii. The type of waste
- iii. Beginning accumulation date- Date when the drum was first placed in Hazardous Waste Storage Area

6.4 All waste oil containers shall be labelled with the following:

- i. The words "Waste Oil or "Used oil"
- ii. Beginning accumulation date

6.5 All 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

6.6 All hazardous waste shall be disposed of by an EPA authorised Hazardous Waste Disposal Facility.

**7.0 POST CONSTRUCTION**

7.1 Construction tools, equipment, machinery, and waste material shall be removed from the site upon the completion of construction works.

7.2 Prior to the operation of the facility, the Developer shall submit to the EPA a completed Application Form for Environmental Authorisation for the Operation of the ***Storage Facility for Oilfield Products***

**8.0 COMPLIANCE MONITORING AND REPORTING**

8.1 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.

8.2 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.

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8.3 Report to the Agency any non-compliance(s) with this Construction Permit as follows:

- i) Within **twenty-four (24) hours** of the time the Holder of the Permit becomes aware of the non-compliance(s), 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(s), 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.

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

8.5 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.

8.6 Notify the EPA within **twenty-four (24) hours** of the occurrence of any environmental emergencies such as oil spills, hazardous materials/wastes, 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.

8.7 Be responsible for payment for all environmental audits and compliance monitoring associated with this permit.

8.8 Conform to all terms and conditions under which this Permit is granted and 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.

**9.0 INSTITUTIONAL AUTHORITY/LIABILITIES**

9.1 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, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.

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- 9.2 This **Construction Permit** is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.
- 9.3 The EPA reserves the right to review/amend the conditions attached to this Permit which also includes the review and/or amendment of permit fees in consideration of any changes in fee schedule as determined by the Agency for projects of this nature.
- 9.4 The Permit Holder, His Servants, Agents and/or Sub-Contractor(s) 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.
- 9.5 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 9.6 The Permit Holder, his Servants, Agents and/or Sub-Contractors shall be strictly jointly and severally liable as follows:
- a. For any activity that causes, or is likely to cause pollution of the environment, unless the person takes all reasonable and practicable measures to prevent or minimise any resulting adverse effect, in accordance with Section 19(1)(a) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
  - b. For any activity which results in the discharge, release or entry into the environment of any contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Permit, in accordance with Section 19(1)(b) of the Environmental Protection Act, Cap. 20:05 Laws of Guyana.
  - c. The discharge or release of contaminants, such as hydraulic fluids, lubricants, fuel, or other industrial fluids relative to the Project, which are not stipulated herein, or by Regulations under the Environmental Protection Act, are strictly prohibited. Any such discharge or release shall be a violation of Section 19(1)(a) and/or (b) of the Environmental Protection Act.

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- d. For the compensation of any Party who suffers any loss or damage as a result of the project. (s.19(3)(e)) Environmental Protection Act, Cap. 20:05, Laws of Guyana.
  - e. For any material or serious environmental harm caused by pollution of the environment intentionally or recklessly in accordance with section 39 (1), (2), (3) and (4) of the Environmental Protection Act, 20:05, Laws of Guyana.
  - f. Any gross negligence or willful misconduct resulting in serious risk, or adverse effects to the environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil, or lubricants from any facilities permitted under this project.
  - g. For the payment of all costs and expenses related to the assessment of damage and investigations required, as result of any pollution incidents attributable to the activity for which this Permit has been issued.
- 9.7 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.
- 9.8 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve him an enforcement notice in accordance with Section 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 9.9 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, issue to the Permit Holder a Prohibition Notice, which may include an order to immediately cease the offending activity, in accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 9.10 This Construction Permit is effective for the period stipulated herein; **December, 2020 to November, 2022.**
- 9.11 This Construction Permit shall remain valid until **November 30, 2022**, 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.

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- 9.12 Should the activity be expected to continue beyond the duration of this Permit, the Permit must be renewed by submitting a completed Application Form for Renewal of Environmental Authorisation (Construction Permit) to the Agency **at least six months** before this Permit expires, that is, no later than **June 31, 2022**.
- 9.13 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.

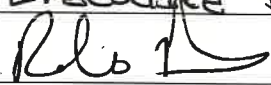
Signed by  on behalf of the Environmental Protection Agency.

**Ms. Sharifah Razack**  
**Executive Director (A.g)**

Date

2020.12.14

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

NAME	RABENDRANATH MUNESHWER
DESIGNATION	EXECUTIVE DIRECTOR
SIGNATURE	
DATE	DEC 16, 2020

