



**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.:	20210527 - MQIOP
Fee:	Extra Large (C2) – US\$3100 per year
Fee Paid:	US \$ 15,500 Five (5) years (September, 2021 to August, 2026)
Addressee:	Malali Quarry Inc. (Tiger Hill Quarry) 56, Hadfield Street, Worthmanville, Georgetown.
Activity:	Construction and Operation of a Stone Quarry with Processing

ENVIRONMENTAL PROTECTION AGENCY
Database Updated

E. Johns 10/05/2020

Malali Quarry Inc., 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 Stone Quarry with processing within the confines of Block number: LM 40 - M 1001/000/21 at the Confluence of the Big Wineperu River and Yakarabaru Creek, Potaro Mining District # 02, hereinafter referred to as the “Project”, in the manner indicated in the Application for Environmental Authorisation submitted on May 25, 2021, and 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 other existing and/or forthcoming 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:

1.0 GENERAL

- 1.1 Submit to the EPA an Environmental and Social Management Plan (ESMP) within the first three (3) months of the date that this Permit is issued, unless otherwise stated by the EPA. The ESMP shall include but not limited to any

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potential environmental impacts, human risks and feasible cost-effective measures to mitigate impacts so as to manage/reduce potential environmental impacts to biodiversity, water quality, air quality, and soil degradation to an acceptable level, a Monitoring and Emergency Plan, Closure and Reclamation Plan and any other consideration as required by the Agency.

- 1.2 The Environmental and Social Management Plan (ESMP) required under subsection 1.1 will inform the revision and updating of applicable conditions as set forth below and inclusion of any other conditions as the Agency sees fit to ensure protection of the environment and prevention or mitigation of pollution/contamination.
- 1.3 Notify the Agency in writing and obtain its approval for **ANY** proposed changes to Malali Quarry Inc. **at least fourteen (14) days prior** to making the change. The notification shall contain a **description of the proposed change in construction or 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 construction or Operation**' means a change in the nature or functioning, or an extension, or any additional installation, which may have consequences for the environment, including but not limited to the following:
 - I. Changes in construction, structure, layout of the facility;
 - II. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility or operation;
 - III. Any technology installed at the facility from which effluent may be discharged; and
 - IV. Any other circumstance prescribed by Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.4 Ensure all mining activities are conducted within the boundaries more fully described in the 'Notice of Intention to Grant Quarry Licence', bearing the **Reference Number Block number: LM 40 - M 1001/000/21**, located at the Confluence of the Big Wineperu River and Yakarabaru Creek, Potaro Mining District # 2 issued by the Guyana Geology and Mines Commission (GGMC) and published in the Official Gazette of Guyana dated July 05, 2020.
- 1.5 Maintain all demarcated boundary limits for the site claim and the periphery of the concession as prescribed by the Guyana Geology and Mines Commission (GGMC), using signage, fences or other means; while maintaining demarcated boundary limits for the mine sites and a non-extractable, vegetated buffer zone at least 20 m wide as follows:
 - Between your mining blocks and other different contiguous land-use activities.

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- Around the mine site.
 - Around the property boundary.
 - Around any water source/spring located on the property.
- 1.6 Ensure proper signage and security measures to keep unauthorized persons from accessing restricted and high-risk areas are maintained at all times.
- 1.7 Any other developmental activities which may significantly affect the environment apart from the activities covered by this Permit (blasting, extraction, processing and storage of quarry materials) are **strictly prohibited** without prior approval from the EPA.
- 1.8 Adhere to the stipulations within the **Mining Act, No. 20 of 1989, the Mining Regulations including the Mining (Amendment) Regulations, 2005, the Explosives Act, Cap 16:06, the Blasting Operations Act, Cap 65:03, and Regulations of the Maritime Administration Department of the Ministry of Public Infrastructure.**
- 2.0 CONSTRUCTION AND INFRASTRUCTURE**
- 2.1 Submit a Construction Method Statement: showing that all construction activities that will be carried out in a manner that prevents damage to land, vegetation, and prevents pollution of bodies of water.
- 2.2 Ensure that all materials stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling or collapse.
- 2.3 Ensure the control of all electrical installations, removal, repairs, or modifications on the construction site is designated to a certified and competent electrician at all times and is authorized in writing by the Company.
- 2.4 Ensure that all construction vehicles and mobile plants are:
- 2.4.1 Always maintained in a good working order;
 - 2.4.2 Used in accordance with their design and the intentions for which they were designed;
 - 2.4.3 Are operated by a person who has received appropriate training, is certified and in possession of proof of competency and is authorized in writing to operate those equipment; and
 - 2.4.4 Are inspected by the authorized operator or driver on a daily basis using a relevant checklist prior to use and the findings of such inspection are recorded in a register which should be available upon request by Officers.

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- 2.5 Utilise the land in accordance with the plan submitted to the Agency. All specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised.
- 2.6 Construct and maintain a good drainage system at all construction areas and ensure that the land is level and appropriately built up to avoid floods and contamination of the Demerara River and other receiving waters.
- 2.7 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.
- 2.8 Take necessary precautions to avoid erosion, siltation and sedimentation of the Demerara River and any other waterways within and around the vicinity of the project site during both the construction and operation for the Quarry Site, Wharf and other supporting infrastructures.
- 2.9 Identify suitable areas for material stockpile and equipment during construction.
- 2.10 Protect susceptible sloped surfaces with suitable revetment and appropriate cover to ensure stability of slopes and avoid erosion.
- 2.11 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, away from watercourses.
- 2.12 Ensure that the River's Bank is cleared of debris on a regular basis to promote free flow of water.
- 2.13 Adequately store and/or cover temporary stockpiles of construction materials, and excavated waste in a designated area to prevent accidental release into the Demerara River, especially in rainy conditions. The designated area should not be placed within 10 m of the Demerara River or other water bodies.
- 2.14 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.
- 2.15 Ensure stockpiles of construction material are stored downwind to avoid being transported by wind to sensitive areas (e.g. residences, schools, hospitals etc.). Loading and offloading activities should, as far as possible, also be confined to this location.

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3.0 WHARF

- 3.1 Ensure that all construction, operation and dredging works at the project site are conducted in accordance with the requirements stipulated by approvals/no-objections issued by Maritime Administration Department (MARAD) and the Sea and River Defence Authority, Ministry of Public Infrastructure and the Drainage & Irrigation Laws of Guyana.
- 3.2 Avoid any river or road traffic hazards or unnecessary inconveniences to the general public through appropriate planning and management of the construction and operation sites.
- 3.3 Ensure that the transportation of quarriable materials by tugs and/or barges to and from the project site does not encumber traffic on the Demerara River, and is done in accordance with the requirements of the Maritime Administration Department (MARAD).
- 3.4 Implement all necessary measures to reduce turbidity and the release of contaminants from re-suspension of sediments in the water column and from exposure of sediments to higher oxygen levels.
- 3.5 Ensure that all construction, dredging and maintenance are safely conducted to prevent the negative impacts on aquatic habitats and benthic organisms, human health and/or the environment, including the treatment, disposal and management of associated dredged materials.
- 3.6 Appropriate methods for excavation and dredging must be selected to minimise the suspension of sediments in the Demerara River.
- 3.7 Disposal of excavated and dredged materials into the Demerara River is strictly **prohibited**.
- 3.8 Ensure the construction of the wharf and dredging is done to coincide with low flow periods of the Demerara River.
- 3.9 Dredging must only be conducted for the new infrastructure component (Wharf) to create or maintain safe navigation access and for construction activities. Should dredging be required for a new channel leading to the wharf, an Application for Environmental Authorisation must be submitted to the EPA.

4.0 EMPLOYEES, OCCUPATIONAL HEALTH AND SAFETY

- 4.1 Adhere to the requirements of **the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.**

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- 4.2 During the course of construction, alteration, or repairs, form and scrap lumber with protruding nails, and all other debris, shall be kept cleared from work areas, passageways, and stairs, in and around buildings or other structures.
- 4.3 Ensure that in every building or structure, exits are arranged and maintained as to provide free and unobstructed egress from all parts of the building or structure, at all times, when it is occupied. No lock or fastening to prevent free escape from the inside of any building shall be installed.
- 4.4 Institute a transparent and accessible grievance mechanism for employees to relate and address any work-related concerns or problems which may arise and affect the well-being or performance of the workers.
- 4.5 Ensure all enclosed workplaces are constructed, equipped, and maintained, as far as reasonably practicable, to prevent the entrance or harborage of rodents, insects, and other vermin. A continuing and effective extermination program shall be instituted where their presence is detected.
- 4.6 Practice the use of caution signs to warn against potential hazards or to caution against unsafe practices.
- 4.7 Use accident prevention tags as a temporary means of warning employees of an existing hazard, such as defective tools, equipment, etc. such tags shall not be used in place of, or as a substitute for, accident prevention signs.
- 4.8 Protect employees from excavated or other materials or equipment that could pose a hazard by falling or rolling into excavations. Protection shall be provided by placing and keeping such materials or equipment at least 2 feet from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.
- 4.9 Employ a Health, Safety and Environmental Officer (s) or qualified person (s) who would be responsible for the implementation of the Company's Environmental Social Management Plan (ESMP) and the terms and conditions of this Environmental Permit and any other policy document that would be developed and implemented by your establishment.
- 4.10 Provide Employees with training on: good environmental management practices; occupational health and safety; and their obligations under this Permit on a regular basis.
- 4.11 Prepare and maintain a training file for all employees and third-party contractors, which shall be available upon Officers' request and submitted with

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the Annual Report to the EPA.

- 4.12 Employees shall at all times be well protected and equipped with Personal Protective Equipment relevant to the occupational tasks during operation. These Personal Protective Equipment (PPE) must include but not be limited to:
- I. Safety helmets;
 - II. Protective respiratory devices
 - III. Safety boots with ankle support;
 - IV. Gloves with reinforced palms and fingers; and
 - V. Tightly fitted safety goggles.
- 4.13 Prepare and maintain an employee log of distribution of Personal Protective Equipment (PPE).
- 4.14 Provide well-equipped first aid and snake bite kits at the work site.
- 4.15 Ensure that communication and transportation systems are in place to respond to emergencies.
- 4.16 Ensure that proper prophylactic or other acceptable medical measures are implemented to protect workers and other persons from malaria and other harmful diseases at the project site.
- 4.17 Provide and maintain adequate fire protection measures, in accordance with guidelines established by the Guyana Fire Service.

5.0 VEGETATION CLEARING AND TOP SOIL STRIPPING

- 5.1 Maintain natural vegetative cover as far as practical, especially in the vicinity of steep slopes occurring at project site and re-vegetate areas from which vegetation were removed.
- 5.2 The storage of topsoil (overburden) within three meters (3m) of natural vegetation or mine face is strictly prohibited. Top soil and vegetation must be carefully stripped and stockpiled in an allocated area marked by a sign, so that it can be used for reclamation and re-vegetation as mining finishes.
- 5.3 Practice alternative methods of vegetation clearing rather than burning, such as, manual or mechanical felling or bulldozing.
- 5.4 Ensure vegetative debris is incorporated and stored with top soil to keep it active for reuse in site reclamation. In addition, practical measures, such as growing of vegetation, including shrubs and grasses, on stockpiles of topsoil shall be employed to reduce erosion, and dust nuisance to surrounding ecosystems.

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- 5.5 Store overburden stockpiles away from the drainage system at least **Two Hundred (200) meters** away from any water courses. Runoff from this overburden shall be directed to the sedimentation/settling pond for treatment before discharge.
- 5.6 Maintain the integrity of areas where riparian vegetation is located to aid in mitigating erosion/sedimentation impacts at the site.
- 5.7 Consider the weather pattern before initiating major earthworks. Monitor areas of exposed soil during periods of heavy rainfall.
- 5.8 Take necessary precautions to avoid soil compaction, erosion, rutting, siltation and sedimentation during operation by limiting the size of the disturbed area, slope length and gradient, and the duration of soil exposure.

6.0 DRILLING AND BLASTING

- 6.1 Before blasting activities commence on the concession, submit a detailed **Drilling and Blasting Plan** that is approved by the Guyana Geology and Mines Commission (GGMC) **at least three (3) months** after issuance of this Permit.
- 6.2 Adhere to the protocols outlined in the Drilling and Blast Plan; any modification of the said Plan must be approved by the GGMC and submitted to the Agency within **two (2) weeks** from date of approval.
- 6.3 Employ a drilling and blasting supervisor, who is certified and licensed by the Guyana Geology and Mines Commission (GGMC).
- 6.4 Ensure the use, storage, transport, handling, and general management of explosives are done in accordance with relevant laws and regulations including the **Explosives Act, 1989**, and subsequent amendments and the requirements of the Guyana Geology and Mines Commission and the Guyana Police Force.
- 6.5 Ensure the appropriate blast design parameters are in place prior to the actual blasting. Attain minimum ground vibration by the utilization of:
 - I. Appropriate delay intervals for charge ignition.
 - II. Appropriate pattern.
 - III. Orientation of blast holes.
 - IV. Confinement of the charge.
- 6.6 Ensure secondary blasting is avoided as much as possible, rather, drop balling, using a heavy mass operated by a dragline shall be considered.
- 6.7 Ensure that a review of the blast design is undertaken where necessary including

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the size of the Maximum Instantaneous Charges (MICs) and detonating sequence and that the correct stemming is in place.

- 6.8 Ensure that all measures such as the use of deck charges are utilised to reduce ground vibrations.
- 6.9 Ensure that all sites are evacuated and guarded before shots are fired. A distinctive **audible warning signal** must be given before firing and at the all-clear. In addition, notify nearby communities and homesteads of blasting times.
- 6.10 After the firing of Blast pattern, a Post Blast inspection must be conducted by a Certified Blaster/Shotfirer to identify any potential hazards or evidence of a misfire and/or the associated corrective action required to make the area safe before an "ALL Clear" is given prior to personnel and/or equipment being allowed back into blast radius.
- 6.11 Blast Pattern should be allowed a "Post Blast Fume Dispersion" time of **30-40 minutes** to allow prevailing winds or air currents enough time to readily dilute and dissipate to the atmosphere any gases generated in open pit blasting before the Re-entry of Personnel to this area.
- 6.12 After entering Blast radius any person experiencing sudden acute effects of coughing, shortness of breath or irritation of the mucous membranes of the eyes, nose or throat following post-blast Nitric Oxide (NOx) events must be examined by a medical practitioner without delay, even if no NOx smell was noticed or symptoms are mild.

7.0 CRUSHING PLANT

- 7.1 Ensure that the crushing plant and ancillary equipment are operated in strict compliance with the manufacturer's specifications.
- 7.2 Implement well-designed sprinklers located at strategic points to contain/reduce the level of fugitive dust being emitted into the environment.
- 7.3 The unloading area of crushers and conveyor belts are to be enclosed and provided with a dust suppression system.
- 7.4 Ensure at all times crushing equipment is secured to a reinforced base so as to reduce the level of vibration and noise emitted from this equipment.

8.0 ROADS

- 8.1 Conduct the maintenance of all identified access roads intended to be utilized by the Company within and around the Malali Amerindian Reservation with

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permission from the relevant authorities such as the Ministry of Public Infrastructure, the Regional Democratic Council (RDC) or Town Council for both the construction and operation phases of this project.

- 8.2 Fill in ruts and holes that develop during road/trail use with suitable materials such as compacted fill and crush and run etc., and ensure roads are sloped to minimise the likelihood of soil erosion.
- 8.3 Where the land surface has been disturbed during/after construction, the Permit Holder shall reclaim/rehabilitate the surface of unused land to equivalent capability.
- 8.4 Ensure that the running surface of the road is crowned with a compacted layer and with good drainage on both sides to catch and direct water to the local drainage system.
- 8.5 Ensure that all reasonable and practical measures such as the provision of turnout drains at regular intervals are implemented to prevent erosion of roads. Runoff from roads, stockpile areas, etc., shall not be discharged directly to natural water ways such as the **Demerara River, Wineperu River, Yakarabaru Creeks, and tributaries** within or contiguous to the Project site.
- 8.6 Ensure that the road has the capacity to withstand the transportation of construction materials to and from the processing plant, wharf and other supporting infrastructure for both construction and operation phases of the project. Submit a road traffic plan that should include but not be limited to the capacity of trucks and frequency of materials being transported and measures to curb potential impacts.
- 8.7 Ensure that all trucks, mechanical machineries and vehicles are equipped with the necessary reflecting signage to warn the public of impending danger of parked/moving trucks with construction materials on the public thoroughfare.
- 8.8 Ensure that adequate and appropriate road signage is installed with provisions for safe line of sight along all access roads and tracks. Signs shall inform users of dangerous bends, crossing of haul trucks, vehicle speed limits, etc.
- 8.9 Ensure that activities as they relate to operation and maintenance of roads, drainage ditches, culverts and or berms, etc. are done in a manner that results in minimal impact on public health and the environment.
- 9.0 WATER AND SOIL QUALITY MANAGEMENT**
- 9.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000.**

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- 9.2 Water and soil quality management will be further informed by the Environmental and Social Management Plan (ESMP) required under subsection 1.2.
- 9.3 Based on baseline surface water quality data that would be collected as part of the Environmental and Social Management Plan (ESMP), develop and submit a sampling/monitoring regime for water quality parameter at the Project Site. The sampling/monitoring regime should clearly identify the locations where samples should be collected and the frequency of sampling within the Project Site.
- 9.4 Maintain the integrity of the existing waterways at all times. Discharges from sediment ponds or the operation into the **Demerara River, Big Wineperu River, Yakarabaru Creek and surrounding environment** shall be in accordance with the Guyana National Bureau of Standards Interim *Guidelines for Industrial Effluent Discharge into the Environment* (IFC), US EPA and World Bank Water Quality Standards. The following maximum allowable limits shall not be exceeded:

Parameter(s)	Maximum Allowable Limits	Frequency of Monitoring
pH	5.0 – 9.0	Bi- Annual
Temperature	<40°C	Bi- Annual
Biological Oxygen Demand (BOD)	<50 mg/L	Bi- Annual
Chemical Oxygen Demand (COD)	< 250 mg/L	Bi- Annual
Total Suspended Solids (TSS)	<50 mg/L	Bi- Annual
Oil and Grease (O&G)	<20 mg/L	Bi- Annual
Turbidity (NTU)	<50mg/L	Bi- Annual
Total coliform	< count/100ml	Bi- Annual
N as NH ₃	<50mg/L	Bi- Annual

- 9.5 Monitor the water quality for the parameters listed in above 9.4 above based on the sampling/monitoring regime recommended at 9.3 above, Grab samples shall be obtained from the following sample points:
- At the point of discharge from the quarry into sediment ponds;
 - Fifteen (15) meters** Upstream of sediment pond discharge point; and
 - Fifteen (15) meters** Downstream of sediment pond discharge point.
- 9.6 Ensure that sediment control structures such as soak ways, settlement/water detention ponds and silt fences, are implemented at the site(s) to prevent the

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direct inflow of sediments to surface water.

- 9.7 Direct all waste lines and drains carrying grease, fats, or culinary oil, or similar waste products from the kitchen area into one or more grease trap interceptors. All required grease trap interceptors shall comply with the following:
- Be constructed of durable, corrosion-resistant materials and have water-tight covers securely fastened in place.
 - Have a flow rate sufficient to handle the maximum demand of the connected system.
 - Be installed at strategic locations to allow accessibility for convenient removal of the lid and internal contents.
 - Be designed and installed with proper venting to avoid becoming air bound.
 - Be properly cleaned and maintained according to the manufacturer's recommended frequency.
- 9.8 Ensure that the all water leaving the temporary-on site live-in facilities is directed to the oil - water separator before being released into the main water body at the site.
- 9.9 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used at the Construction Site. Ensure to store all oils, fuel, paints and chemicals in a designated area, away from all watercourses and drainage channels.
- 9.10 Conduct equipment refueling, maintenance and placement on an impervious base to prevent fuel spills/leaks. Oil spills should be cleaned-up by the best practicable means, to prevent runoff into any watercourse within the project's area of influence.
- 9.11 Surface runoff from vehicle service areas should be channelled to oil-water separators. All water from the oil-water separators should be skimmed prior to discharge.
- 9.12 Limit the removal of vegetation to the extent necessary for works to proceed. In areas where soils are not to be removed, the grassed vegetation layer shall be maintained, where possible, to protect the soil from erosion and compaction.
- 9.13 Ensure that waste/spoil piles are surrounded by perimeter berms to manage discharges of sediment; all runoff from this area shall be directed to a settling pond.

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- 9.14 Ensure erosion susceptible areas are sloped, benched or lined with erosion control structures to manage surface runoff.
- 9.15 Establish and maintain a vegetative **two hundred (200) meters** buffer zone between the rock deposit, **the Demerara River and the Wineperu River** to reduce erosion.
- 9.16 Construct and maintain a good drainage system capable of handling the probable maximum precipitation storm event at all facilities. Storm water discharge shall be directed into appropriately designed sediment ponds before discharge into surrounding waterways.
- 9.17 Construct and maintain the settling ponds at the project site. The pond must allow for maximum retention time of waste water to allow for settling of suspended solids and natural degradation of possible contaminants prior to water being released to the natural environment.
- 9.18 Silt fences shall be installed at discharge points of drainage systems to reduce the sediment loads entering sediment ponds.
- 9.19 As far as possible, divert surface water runoff from higher mine benches to prevent it from reaching lower workings. Where possible, strategically place low permeability materials to restrict water flow into mining areas.
- 9.20 As far as possible, implement practical measures to prevent pollution of the **Demerara River, Big Wineperu River, and Yakarabaru Creek**. Domestic waste water shall not be discharged directly into watercourses. Install a filter treatment system at the domestic water discharge point for further treatment before discharge.
- 9.21 Install, operate and maintain oil/water separator(s) at repair workshop and fuel storage and handling areas.
- 9.22 Conduct an assessment to determine the status of groundwater levels in the vicinity of the mining concession **within the first year** after commencement of the Quarrying activities. The assessment shall present baseline information on water levels, flow and quality, amongst other groundwater parameters, for the continuous monitoring of groundwater within the concession.

10.0 HAZARDOUS MATERIAL/WASTE MANAGEMENT

- 10.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**, and the stipulations within the

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Pesticides and Toxic Chemicals Act, No. 13 of 2000, the Pesticides and Toxic Chemicals Regulations, No. 8 of 2004, the Pesticides and Toxic Chemicals (Amendment) Regulations, No. 8 of 2007.

- 10.2 The Hazardous Material Storage areas shall be clearly labelled, secured and well illuminated when not in use. The following warning signs shall be clearly posted:
- (a) Danger- Chemical Storage Area "Authorized Personnel Only"
 - (b) Read and Follow all label directions
 - (c) No Smoking
 - (d) No Eating or Drinking
- 10.3 Establish and maintain a register of hazardous materials or chemicals used or generated by the operation. Submit to the Agency, twice yearly (June and December), a report on hazardous waste generation and management for the previous six months using the most recent version of the EPA's Recording and Reporting Form of Hazardous Waste and including:
- The name, location and type of facility.
 - Types and quantities (in metric units) of hazardous waste generated.
 - Manner of storage, use, any applied treatment standards/methods and disposal of these substances.
 - Data concerning off-site shipments of waste, i.e. local disposal facility utilized, country to which hazardous waste is shipped, purpose of shipment and amount of waste shipped.
 - A summary of any accidents that may have occurred and any action taken.
 - Any waste minimization efforts undertaken by your facility for hazardous material/waste.
 - Any other matter the Agency may require.
- 10.4 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 list attached).
- a) Collect and store waste oils, used batteries, and any other hazardous waste on site until ready for disposal in a manner approved by the EPA.
 - b) Refrain from draining fuel/lubricants, including waste oils of any quantity from equipment on to the ground and waterways.
- 10.5 Contain all chemicals securely and conform to the safety conditions as outlined in the Material Safety Data Sheet for each chemical. Keep all chemicals in well-sealed and individually labeled containers and properly store in an impervious and well-ventilated room/bond.
- 10.6 Safety Data Sheets for all hazardous materials shall be readily available and easily

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accessible at all times at the Facility.

- 10.7 Take the necessary precautionary measures during the transport, transfer, use and handling of all hazardous material.
- 10.8 Implement a programme to ensure regular and preventative maintenance of machinery and equipment to prevent leaks and minimize air emissions and hydrocarbon releases.
- 10.9 All hazardous waste shall be stored in a covered, bunded area. This area shall include the following:
 - (a) Signage- "Hazardous Waste Storage Area";
 - (b) Low traffic;
 - (c) No floor drains; and
 - (d) Secondary containment capable of containing 110% of the largest volume therein.
- 10.10 Do not service vehicles in mining pits except in instances of emergency repairs.
- 10.11 Maintain emergency spill cleanup kits on site for response to spills.
- 10.12 A fully stocked first-aid kit shall be readily available at the hazardous storage Facility.
- 10.13 Material storage containers shall be inspected weekly for signs of leakage or corrosion and damaged containers must be replaced immediately. Inspection Reports must be maintained and signed by the appropriately qualified inspecting officer and his/her supervisor.
- 10.14 Elevate all waste oil/ chemical tanks and containers so that leaks are easily identifiable.
- 10.15 Collect and store waste oils on site, until ready for disposal or reuse. It is an offence to drain fuel/lubricants including waste oils of any quantity from equipment onto the ground or water way.

11 FUEL HANDLING AND STORAGE

- 11.1 Fuel shall at all times be stored above-ground, in a cool, dry place and away from ignition sources. 'No Smoking' signs shall be posted where fuel is handled or stored.
- 11.2 Construct and maintain an impervious secondary containment wall around fuel storage tanks, creating a temporary holding area in the event of accidental

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spillage. The containment wall for areas with multiple tanks must have the capacity to provide at least 110% containment of the largest tank. The containment wall for areas with solitary tanks must have the capacity to provide 110% containment of each fuel tank. The containment wall **MUST** be fully sealed to prevent spillage into the receiving drainage system.

- 11.3 Existing secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid tight to withstand hydrostatic pressure.
- 11.4 All piping must enter or exit the containment over the wall and no part of the tank infrastructure (e.g. dispenser, filling hoses and valves) shall protrude outside the containment.
- 11.5 Ensure that adequate signage is installed in fuel storage areas, such as 'No Smoking', 'Flammable Materials', etc.
- 11.6 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimize corrosion of fuel tanks.
- 11.7 Maintenance and/or repair of fittings, pipes and hoses shall be conducted monthly and in accordance with manufacturer's specifications. A summarized inspection report shall be compiled and submitted to the Agency as part of the Annual Report required by **Condition 14.2**.
- 11.8 Secondary containment, drip trays or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points.
- 11.9 Leak detection systems shall be installed on all fuel tanks. At least two (2) of the following measures shall be implemented:
 - (a) Overflow alarms on tanks;
 - (b) Gauging system;
 - (c) Dipstick measurements;
 - (d) Sensors on walls of tanks; or
 - (e) Electric Shutdown Valve.

12 WASTE MANAGEMENT

- 12.1 Adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations, 2013**.
- 12.2 Promote proper solid waste management and disposal practices at your facility at all times. Waste shall not be disposed of in or near to the Wineperu River or any other waterways.

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- 12.3 Reduction, recycling and/or reuse of waste shall be promoted at all times.
- 12.4 Ensure that solid waste pits are located at least **one hundred (100) meters** away from any watercourses, or habitation. The waste sites shall be constructed above the ground water table and lined to the floor with an impervious earthen or other material to prevent leaching to ground water.
- 12.5 Maintain good house-keeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 12.6 Ensure that garbage receptacles are placed in strategic locations within the Mine site. Have separate bins to facilitate the collection and sorting of waste according to liquid and solids; organic and inorganic; degradable and non-degradable. Used tyres and batteries shall be re-used or disposed of in a manner approved by the EPA.
- 12.7 Maintain **new or existing** pit latrine(s): according to the following requirements:
- I. The environs of the latrine/latrines shall be kept clean in a hygienic manner and maintained both internally and externally.
This latrine shall be:
 - Built with suitable materials such as hardwood or concrete materials;
 - Maintained on a clay mound to prevent surface water from entering;
 - Properly vented with a tall ventilation pipe located on the windward side;
 - Fitted with a fly screen on the top of the vent to prevent the passage of flies and mosquitoes. The meshed apertures (holes) of the fly screen must not exceed 1.5 millimeters, made with corrosion resistant material to withstand intense rainfall, high temperature and strong sunlight;
 - II. Positioned at least fifty (50) meters away from surface and ground water sources, creeks well or springs;
 - III. Dug at least 0.6 meters above the average water table and at least four (4) meters away from any dwelling (such as camps, residential areas and any sleeping and living quarters, etc.);
 - IV. Easily accessible during bad weather and will not cause odour;

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- V. When the maximum capacity is reached, latrine(s) should be covered with at least 0.3 meters of soil and a suitable location determined for another, in consideration of the foregoing.
- 12.8 Construct and maintain a septic tank system onsite. Septic Tanks at all times shall be accessible for cleaning and de-sludging. Septic tanks should be installed with a sand and charcoal filter bed, or other appropriate design for further treatment. This must be in accordance with *Guyana National Bureau of Standards Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems*.
- 12.9 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*.
- 12.10 Install, operate and maintain grease trap interceptors in all cooking and food preparation areas to trap oils, fats and wax present in waste water.
- 12.11 Dumping of waste (Domestic and Construction) into the Demerara River is **prohibited**. Waste should not be stored in close proximity to the aforementioned river, this inclusive of waste oil and/or fuel.

13 AIR QUALITY MANAGEMENT

- 13.1 Noise management and air quality conditions for construction and operation phases will be further informed by the Environmental and Social Management Plan (ESMP) required under subsection 1.2.
- 13.2 Based on baseline air quality data that would be collected as part of the Environmental and Social Management Plan (ESMP), develop and submit a sampling/monitoring regime for air quality parameter at the Project Site. The sampling/monitoring regime should clearly identify the locations where samples should be collected and the frequency of sampling within the Project Site.
- 13.3 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000** and the *World Health Organisation (WHO) Air Quality Guidelines for Particulate Matter in the Environment*, not exceeding the limits below:

Air Pollutant	Maximum Pollutant Level
PM _{2.5}	10 µg/m ³ annual mean
	25 µg/m ³ 24-hour mean

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PM₁₀	20 µg/m ³ annual mean
	50 µg/m ³ 24-hour mean
Total Suspended Particles (TSP)	Primary 75 µg/m ³ annual geometric mean
	Primary 260 µg/m ³ 24-hour mean
	Secondary 60 µg/m ³ annual geometric mean
	Secondary 150 µg/m ³ 24-hour mean

- 13.4 Ensure that the release of fumes from generators to neighbouring residents is minimised / avoided by outfitting the generator with an exhaust stack of an appropriate height, preferably at least 2 metres above the tallest building nearby.
- 13.5 Locate all emission sources (dust and fumes) in a manner to reduce impact on neighbouring residents and sensitive environmental receptors.
- 13.6 Establish and maintain a vegetative buffer onsite to aid with the attenuation of fugitive noise and dust and to improve the aesthetic quality of the surroundings.
- 13.7 Maintain stakeholder engagement throughout the project's life. At all times inform residents of the timing and duration of the construction activities.
- 13.8 Employ dust suppression methods such as watering, erecting dust screens/fences etc. to control dust emissions from material stockpiles and other components of the development that would generate dust.
- 13.9 Ensure that appropriate measures are in place to minimise the impacts of air borne emissions from vehicles offloading and/or loading building materials.
- 13.10 Establish a maximum speed limit or install traffic calming devices to reduce speeds to a rate that prevents off-property transport of dust entrained by vehicles.
- 13.11 Conduct monitoring for the parameters listed in **Condition 12.31** on an annual basis and submit results to the EPA as a component of the Environmental Annual Report required by **Condition 14.2**. Readings shall be obtained at, but not limited to, the following locations:
 - I. Haul Roads;
 - II. Overburden Stockpiles;
 - III. Finished product stockpile;
 - IV. Aggregate processing area;
 - V. Quarry pit; and
 - VI. Housing Area.

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- 13.12 Respond to equipment malfunction or **inefficiencies** which may result in visible air emissions. In the event of malfunction leading to abnormal emissions the operator shall:
- a) investigate and undertake remedial action **immediately**;
 - b) adjust the process or activity to minimise those emissions; and
 - c) record the events and actions taken.
- 13.13 Establish and maintain the vegetative buffer zone of at least **two hundred (200) meters** between the Quarry and other contiguous land uses to buffer noise and fugitive dust emissions.
- 13.14 Ensure measures are taken to avoid or reduce dust pollution from the mines and the road. Dust suppressants i.e., water soaking etc. shall be used during dry season and as necessary.
- 13.15 Install enclosures and dust suppression systems on the mobile and fixed crushing plant, screening plant and other equipment.
- 13.16 Ensure that external conveyors to/from the plant are affixed with covers.
- 13.17 Limit vehicle speeds on the internal roadways.
- 13.18 As far as possible, site and orient stockpiles and storage areas to reduce wind exposure.
- 13.19 Ensure that the exhaust stack of the generator is of an appropriate height, i.e. at least **two (2) meters** above the tallest building nearby, to minimise adverse fumes/soot impacts to contiguous areas.
- 13.20 Operate and service all mechanical equipment and vehicles in accordance with manufacturer's specifications at all times to minimise atmospheric emissions.

14 NOISE MANAGEMENT

- 14.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000**.
- 14.2 Comply with the *Guidelines for Noise Emissions into the Environment* for *Guidelines for Noise Emissions into the Environment*, not exceeding the limits below at a distance of 15 m (50 ft) from the source or property boundary, whichever is closer.

Industrial Limits **100dB** (Day-time (06:00-18:00 h))
80 dB (Night -time (18:00-06:00 h))

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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)

- 14.3 Conduct monitoring on a weekly basis to ensure that noise from the operation is within the limits specified in Condition 12.2 and submit results to the EPA as a component of the Environmental Annual Report required by **Condition 14.2.**
- 14.4 Implement all possible measures to mitigate adverse noise impacts from generator (s) or heavy machinery on the surrounding environment. Silencers, mufflers, enclosures or other appropriate sound attenuation measures/devices should be used.
- 14.5 Ensure to operate and service all mechanical equipment in accordance with manufacturer's recommendations to minimise the impact of sound levels on the environment at all times.
- 14.6 Equip all sound-making devices, e.g. generators, planers, etc. with silencers or mufflers to reduce noise level and/or enclose all sound making devices in structures constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.)
- 14.7 Ensure that all equipment and machinery are placed on foundations properly designed to ensure effective damping of vibrations.

15 BIODIVERSITY PROTECTION

- 15.1 Undertake construction, including clearing of vegetation at a pace slow enough to ensure that terrestrial animals and aquatic life can move to other locations.
- 15.2 Avoid blasting/intense construction activities during sensitive biodiversity seasons of the year as advised by the Guyana Wildlife Conservation and Management Commission.
- 15.3 Establish vegetation around production facilities and along access roads to mitigate the impact on terrestrial resources.
- 15.4 Conduct and record visual observances of aquatic and terrestrial biodiversity on a daily basis. Submit reports as a component of the Environmental Annual Report required in **condition 14.2.**

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- 15.5 Report all occurrences of illegal wildlife trapping and trading to the EPA and Wildlife Conservation and Management Commission Authority.
- 15.6 Communicate to employees through trainings, signage and other practicable means, that the capture, trading and/or removal of endangered and vulnerable wildlife from the project area and surrounding areas is forbidden, in accordance with the **Wildlife Conservation and Management Act, 2016**, and any of its applicable forthcoming Regulations.

16 COMPLIANCE MONITORING AND REPORTING

- 16.1 Monitor the implementation of the conditions of this **Environmental Permit**, insofar as they involve adherence by employees and all third parties under your direction.
- 16.2 Submit **Environmental Annual Reports** to the EPA on or before **March 31** every year on your compliance with this Permit.
- 16.3 Ensure the reports and records of monitoring include the following:
- The names of the individuals and designations, who conducted sampling, prepared and compiled the reports;
 - The date, place/location, time, weather conditions, techniques and methods used in sampling;
 - The date the measurements were compiled or analysed and the names of the individuals who compiled the information;
 - Observations, readings, calculations, benchmarks, bench data, the results of analyses;
 - Limitations of the sampling process and all other occurrence at the time of study, which may affect the results;
 - Photographs and drawings of all relevant aspects of the operation; and
 - The state of operation of facilities at the time of measurement, including planned and unplanned shutdowns, production levels and achievement of design capacity, identification of release point, source of release and substances being released.
- 16.4 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.
- 16.5 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the operation.
- 16.6 Notify the Agency within **twenty-one (21) days** in event of bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a

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party to an amalgamation.

- 16.7 Notify the EPA within **sixty (60) minutes** of the occurrence of any environmental emergencies such as a sudden 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.
- 16.8 Report to the Agency any non-compliance(s) with the **Environmental Permit**:
- 16.8.1 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.
- 16.8.2 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.
- 16.8.3 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.
- 16.9 Implement relevant measures/agreements to avoid conflicts with other land users/communities. Conflicts should be reported to the relevant authorities if they occur.
- 16.10 Inform the **National Trust and Walter Roth Museum** if any artefacts of archaeological and anthropological significance are unearthed during Major Stone quarry operations.
- 16.11 Submit to the EPA the results of all periodic audits conducted by the GGMC.
- 16.12 Notify the EPA within **sixty (60) minutes** of any accidental release of contaminants or incidence of pollution into the environment. The Permit Holder shall provide the financial, equipment and technical capacity to adequately respond to any emergency that may occur on site and emergency response shall be immediate.
- 16.13 Submit to the Agency a detailed **Project Closure Plan** for approval **two (2) years** prior to closure. Thereafter, the closure plan will be updated and reviewed at a frequency agreed to with the Agency, as needed.
- 16.14 The Permit Holder shall provide the financial, equipment and technical capacity to adequately respond to any emergency that may occur on site and emergency response shall be immediate.

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17 INSTITUTIONAL AUTHORITY/LIABILITIES

- 17.1 The Permit Holder shall be strictly liable for any loss or damage to the environment through any act caused intentionally or recklessly, including the adverse effect of any discharge or release of contaminants in excess of the levels stipulated herein or the Regulations, or any activity which causes or is likely to cause pollution. Section 19(1) EP Act, Cap. 20:05, Laws of Guyana.
- 17.2 The Permit Holder shall comply strictly with Section 39 (1), (2), (3) and (4) of the Environmental Protection Act Cap 20:05, Laws of Guyana.
- 17.3 The Permit Holder shall strictly observe section 19(3) of the Environmental Protection Act Cap 20:05, Laws of Guyana.
- 17.4 The Permit Holder may be liable for environmental damage due to pollution from its activities within Guyana.
- 17.5 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.
- 17.6 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 s. 38 of Environmental Protection Act, Cap. 20:05, 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 be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.
- 17.7 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 structure as determined by the Agency for projects of this nature.
- 17.8 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 17.9 This Environmental Permit is not the final consent; all relevant permission shall be obtained from other regulatory bodies for continued operation and maintained thereafter.
- 17.10 The Permit Holder shall compensate any Party who suffers any loss of damage as a result of the attributed project. (Section 19(3)(e) of the Environmental

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Protection Act, Cap. 20:05, Laws of Guyana.)

- 17.11 The Permit Holder shall be responsible for the payment of all cost related to the assessment of damage and costs for the independent assessor(s).
- 17.12 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.
- 17.13 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.
- 17.14 Where it appears to the Agency (EPA) 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 Permit Holder shall be issued with a Prohibition Notice Order to immediately cease the offending activity in accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 17.15 Where the Permit Holder in accordance with Section 19(3) of the Environmental Protection Act, is found liable for the release or discharge of any contaminant or for the process involving the contaminant, the Permit Holder shall:
- I. Immediately notify the Agency of the discharge;
 - II. Concentration and amount of contaminant;
 - III. Circumstances of the discharge; and
 - IV. What action he/she has taken or intends to take to restore the natural environment; and
 - V. Be liable to pay for the cost of an independent investigation into the discharge.
- 17.16 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 marine environment, biodiversity, protected species and natural habitat with respect to any release, discharge or spill of contaminant fluids, oil or lubricants from any facilities permitted under this project.
- 17.17 This Environmental Permit is effective for the period stipulated herein **September, 2021 to August, 2026**. This Environmental Permit shall remain valid until **August 31, 2026** unless otherwise cancelled, suspended, modified or varied 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 (Authorisation) Regulations, 2000.

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- 17.18 This Environmental Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorization* to the Agency at least six months before this Permit expires, that is, no later than **March 31, 2026**.
- 17.19 Any late submission of renewal application(s) 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 day late**, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.
- 17.20 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.

Signed by  on behalf of the Environmental Protection Agency

Kemraj Parsram
Executive Director

Date: 24.9.2021

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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.

I hereby accept the above terms and conditions upon which this Environmental 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 forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	Jairaj Ramnarine
SIGNATURE:	Jairaj Ramnarine
DESIGNATION:	Director
DATE:	24/12/2021



