



Environmental Protection Agency

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Operation Permit

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

Reference No.:	20201228-DMLSP
Fees:	Small (C1) US\$100 per year
Fee Paid:	US\$300: Three (3) Years (April, 2021 to March, 2024)

Addressee(s): Dennis Mangroo,
Lot Block 'R' New Hope,
East Bank Demerara.



Activity: To undertake Logging Operation of one (1) Portable Mill
within SFA Dem 24/14

Dennis Mangroo, 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 undertake logging within SFA No. Dem 24/14, located at Right Bank Essequibo River, Left & Right Bank Sarabara River, hereinafter referred to as the "Project", in the manner indicated in the Application submitted on December 28, 2021, subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, existing or forthcoming regulations made under the said Act and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

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The Permit Holder, His Servants, Agents and/or Sub-Contractors shall comply with the following Terms and Conditions for Operation:

1.0 OPERATION

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes in operation of the Logging and Portable Mill operation at least **fourteen (14) days before making the change**. The notification shall contain a **description of the proposed change in operation**. It is not necessary to make such a notification if **an Application to vary** this Permit has been made and the Application contains a description of the proposed change. In this condition **‘change in operation’** means a change in the nature or functioning, or an extension, of the 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 used or installed at the facility from which effluent may be emitted from; and
 - IV. Any other variance prescribed by Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Construct camps, log pond and skid trail(s) in the manner specified in the Guyana Forestry Commission (GFC) Code of Practice for Timber Harvesting, 2018 (Revised).
- 1.3 Provide adequate fire protection measures such as fire extinguishers and sand buckets in accordance with the Guyana Fire Service’s (GFS) approval.
- 1.4 Ensure that adequate provisions are in place for ingress to and egress from the Project site.
- 1.5 Maintain the active trail (s) leading to the Project site. Fill in ruts and holes that develop during road use. Use a suitable material (such as compacted fill), and fill as soon as possible to reduce the potential for erosion.
- 1.6 Where the land surface has been disturbed during/after construction, expansion, modification or repair of the operation or any portion of the operation, the Permit Holder shall reclaim/rehabilitate the surface of the land to its former state; except where it is not possible, the Permit Holder may reclaim and/or rehabilitate unused land to an equivalent standard.
- 1.7 Ensure that trucks are equipped with the necessary reflective signage to warn the public of impending danger of parked/moving trucks with logs on public thoroughfares.

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- 1.8 Ensure that the transportation of logs and lumber to and from your Project site does not impede traffic on trail/s. Logs and lumber must be contained within the boundaries of the Project site.
- 1.9 Discharge logs safely through the use of appropriate equipment i.e. log extractor at log market/s to ensure logs do not free fall from haulers to the ground, resulting in vibration and excessive damage to soils and/or vegetation.
- 1.10 Prohibit the hunting, trapping and trading of endangered and locally protected wildlife species, in keeping with the Wildlife Conservation and Management Act, 2016. Further, prohibit the capture, trading and removal of wildlife by employees and/or all third party contractors.
- 1.11 Undertake removal of trees and vegetation in areas where only absolutely necessary.

2.0 EMPLOYEES AND OCCUPATIONAL HEALTH AND SAFETY

- 2.1 All employees must be equipped with and trained in the use of personal protective equipment (PPE) to fit their job specification such as: chaps for chainsaw operators, hi-visibility vests, respirator, hard hats, gloves, and appropriate footwear and ensure appropriate utilisation of these gears. A log for the distribution of Personal Protective Equipment to employees must be maintained. Evidence of distribution log must be presented to officer of the Agency upon request during a compliance inspection, and a summary must be included in the Environmental **Annual Report**.

- 2.2 A first aid equipped according to the Guyana Red Cross standards must be located on site at times. First aid kit should include a snake bite kit. Additionally, communication and transportation systems must be in place to respond to emergencies.

- 2.3 All employees must be trained in the use of fire extinguishers and firefighting protocols.

- 2.4 Make all employees/third party contractors aware of the Conditions of this Operation Permit and provide training on good environmental management practices. Prepare and maintain a training file for employees which should be available upon Officers' request during a Compliance Inspection and a summary of such training must be included in the Environmental **Annual Report**.

3.0 ROADS AND LOG MARKET

- 3.1 All activities with regard to the construction, operation and maintenance of primary and secondary roads within Concession **must** be done in a manner specified in the GFC Code of Practice for Timber Harvesting (Revised), 2018.



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- 3.2 The construction, operation and maintenance of bridges, culverts, skid trails, log-markets, burrow pits and camp sites **must** be done in a manner specified in the GFC Code of Practice for Timber Harvesting (Revised), 2018.
- 3.3 Ensure that all reasonable and practical measures such as the provision of turnout drains at regular intervals are implemented to prevent erosion of roads. Further, ensure that runoff from turnout drains along roads and log ponds do not discharge directly to natural water ways.
- 3.4 Construct turnout drains at specified spacing recommended by the Code of Practice for Timber Harvesting for roads or trails of varying gradients to maintain road stability.
- 3.5 Maintain all active roads/trail (s) leading to and within the concession. Fill in ruts and holes that develop during roads/trails use. Use a suitable material (such as compacted fill), to fill as soon as possible to reduce the potential for erosion.
- 3.6 Ensure that vegetative debris from harvesting does not result in blocked waterways. Remove all debris and conduct regular maintenance to allow for free flow of water ways.
- 3.7 Ensure that no harvesting of logs takes place nearby waterways, which may result in erosion and disruption of biodiversity corridor for the movement of wildlife along waterways.
- 3.8 Blading of trails on steep slopes should be avoided to reduce erosion that may lead to sedimentation of waterways below.
- 3.9 Skidder blade shall be raised when opening trails to: avoid removing top soil and seeds within, reduce erosion, and encourage fast regeneration on the trail. Blades should only be lowered to restore rutted trails (when returning empty) or to serve as an anchor when winching.
- 3.10 As far as is practical, retain the vegetative debris from the opening of trails to cushion the effects of the skidder or other machinery wheels/tracks on soil surface to reduce compaction, rutting, and encourage natural regeneration.

4.0 WASTE MANAGEMENT

- 4.1 **Comply with the provisions of the Environmental Protection (Litter Enforcement) Regulations, 2013, where applicable.**
- 4.2 Maintain all camps in the manner specific in the GFC Code of Practice for Timber Harvesting (Revised), 2018. At all times, maintain good housekeeping, sanitary and hygienic practices, and the good aesthetic quality of your surroundings.

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4.3 Promote proper solid waste management practices at Project site. Provide covered garbage receptacles at strategic locations around Concession. All solid waste collected in these receptacles must be appropriately store, until such time, for disposal in solid waste pits. Reuse, recycle and compost waste materials as far as practicable.

4.4 A Solid Waste Pit should be constructed at least 100 metres away from waterways, above the water table and lined with at least 1.5 metres of clay/loam material to avoid leachate entering the ground water.

4.4.1 Storm water should be diverted from the waste pit. Pits should be maintained and covered on a regular basis to avoid fly and rodent infestations as well as mal-odour from leachate.

4.4.2 When the maximum capacity is reached, the solid waste pit should be covered with at least 0.3 metres of soil and a suitable site determined for another.

4.5 Ensure wood waste such as sawdust, shaving, wood ends, etc. are recovered and appropriately disposed of at a suitable location away from waterways or reused. Options for reuse are described but not limited to those identified below:

- a. Poultry Bedding.
- b. Mulching.
- c. Land-filling.

4.6 The environs of the latrine should be kept clean, in a hygienic manner and maintained both internally and externally. Ensure the construction and maintenance of new or existing Ventilated Improved Pit (VIP) latrines comply with the following:

- i. Built with suitable materials such as hardwood or concrete materials;
- ii. Constructed on clay mound to prevent surface water from entering;
- iii. Properly vented with a tall ventilation pipe located on the windward side;
- iv. Fitted with a fly screen on top of the vent to prevent the passage of flies and mosquitoes;
- v. The meshed apertures (holes) of the fly screen must not exceed 1.5 millimetres, made with corrosion resistant material to withstand intense rainfall, high temperatures and strong sunlight;
- vi. Positioned at least thirty (30) metres away from surface and ground water sources, creeks, wells or springs;
- vii. Dug at least 0.6 metres above the average water table and at least four (4) metres away from any dwelling (such as camps, residential areas and any sleeping and living quarters, etc.);
- viii. Easily reached during bad weather and will not cause odour; and

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- ix. When the maximum capacity is reached *latrine/ latrines* should be covered with at least 0.3 metres of soil and a suitable site determined for another.

5.0 HAZARDOUS MATERIALS/WASTE MANAGEMENT

5.1 Adhere to the provisions of the Environmental Protection (Hazardous Wastes Management) Regulations, 2000, as follows:

- 5.1.1 There shall be no release of any pollutants (i.e. fuel, waste oil, wood preservatives) to ground water or soil from permitted installation. Any accidental release of pollutants to soil and ground water must be recorded and reported **within twenty-four (24) hours** to the Agency for further investigation.
- 5.1.2 Take the necessary precautionary measures such as the use of leak-proof and tightly closed containers during the transport of fuels to the Project site. Appropriate measures should also be taken during the handling and use of all Hazardous Waste in the Project site.
- 5.1.3 Store all fuel away from ignition sources and have **'No Smoking'** signs posted where fuel is handled or stored.
- 5.1.4 Refrain from draining fuel/lubricants including waste oils of any quantity from equipment onto the ground or into waterways.
- 5.1.5 Label and store before being reused or sold to an authorised dealer; waste oil, used batteries, oily rags, filters and oil containers, in a designated area with an impervious surface.
- 5.1.6 Promote the reuse of waste oil, for example lubrication of equipment, where practicable.

6.0 AIR QUALITY AND NOISE MANAGEMENT

6.1 Adhere to the Environmental Protection (Air Quality) Regulations, 2000 and the Environmental Protection (Noise Management) Regulations, 2000.

- 6.2 Comply with the Guyana National Bureau of Standards (GNBS) Guidelines for noise emission into the environment, not exceeding the limits below at a distance of 15m (50 ft) from the source or property boundary, whichever is closer.

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



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- 6.3 Ensure all the Portable Mill is placed on foundations properly designed to ensure effective damping of vibrations.
- 6.4 Implement all possible measures such as, ensuring equipment is serviced and operated according to manufactures' recommendations to minimise the impact of sound levels on the environment.
- 6.5 Ensure that mechanical equipment and vehicles are regularly maintained and work at their optimal levels to minimise atmospheric emissions.
- 6.6 Take all reasonable precautions to prevent wood dust from becoming airborne.

7.0 COMPLIANCE, MONITORING AND REPORTING

- 7.1 Notify the EPA **within twenty-four (24) hours** of the occurrence of any environmental emergencies.
- 7.2 Comply with any lawful directions given by the EPA from time-to-time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.
- 7.3 Monitor the implementation of the Conditions of this Operation Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 7.4 Submit to the EPA **Environmental Annual Report** on the status of the project, progress of the implementation of the monitoring activities and compliance with the conditions contained herein by **March 31** every year.
- 7.5 Conform to all terms and conditions under which this Operation Permit is granted. The Permit Holder, His Agents, and/or Sub-contractors shall be liable for any loss or damage which arises from the project as a result of the activities attributable to the project or breach of any term or condition of this Permit.
- 7.6 Inform the Agency prior to or **within thirty (30) days** of any change of name or ownership of the operation.
- 7.7 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.
- 7.8 Notify the EPA **within one (1) hour** of the occurrence of any environmental emergencies such as a sudden onset disaster, accident, natural, technological or human induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood.



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7.9 Report to the Agency any non-compliance(s) with the Operation Permit as follows:

7.9.1 Within **twenty-four (24) hours** of the time the Permit Holder becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.

7.9.2 Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance, its cause and the period of non-compliance including exact dates and time.

7.9.3 Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.

7.10 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 Regulations, 2000.

7.11 The EPA reserves the right to review and/or amend the conditions and fees attached to this Permit, which also includes the review and/or amendment of Permit Fees in consideration of any changes in fee structure as determined by the Agency for projects of this nature.

7.12 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.

7.13 The Permit Holder, His Servants, Agents and/or Sub-Contractors 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 authorized 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.

7.14 The Permit Holder, his Servants, Agents and/or Sub-Contractors while executing the activities attributable to the project 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 all reasonable and practicable measures were taken to prevent or minimize any resulting adverse effect, in accordance with Section 19(1)(a) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.



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- 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 wood waste, industrial chemicals, lubricants, fuel, chemicals, hazardous materials or other wastes relative to the Project, which are not regulated herein, or permitted to be discharged herein, are strictly prohibited. Any such discharge or release shall be deemed a violation of Section 19(1) (a) and/or Section 19(1) (b) of the Environmental Protection Act.
- 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 wilful misconduct resulting in serious risk, or adverse effects to the marine 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 or likely to be attributable to the activity for which this Permit has been issued.
- 7.15 This Operation Permit is not the final consent; all relevant permissions, approvals and supporting documentations must be obtained from other regulatory bodies for continued operation, and subsequently maintained.
- 7.16 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any complainant seeking loss or damage for negligence as a result of the Permit Holder's lack of due care and diligence.
- 7.17 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 to immediately cease the offending activity, in



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accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

7.18 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.

7.19 This Operation Permit is effective for the period stipulated herein **April, 2021 to March, 2024**. This Operation Permit shall remain valid until **March 31, 2024**, unless otherwise modified, cancelled, suspended or revoked 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 Regulations, 2000.

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

7.21 Any late submission of renewal application after the specified date as stated above, shall require the Permit Holder to pay, in addition to renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2000.00) per every business day late**, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.

7.22 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to penalties prescribed under the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000, including civil penalties and injunctive relief.

Signed by  on behalf of the Environmental Protection Agency.

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

Date 2021.04.23

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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 Regulations, 2000, and any forthcoming regulations and standards made under this Act.

NAME:	JENNIS MARGUZO
SIGNATURE:	JENNIS MARGUZO
DESIGNATION:	OWNER
DATE:	22 ND JUNE 2022

