

Environmental Permit - Ref. No.: 20210112-TGANC

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.

Environmental Permit

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Reference No.:	20210112-TGANC
Fee:	Large (C2) - US\$2000 per year
Fees Paid:	US\$2,000: One (1) year (October 2021 to September 2022)

Addressee: Mr Michael O. Correia
Chief Executive Officer
Trans Guyana Airways Ltd.
Eugene F. Correia/Ogle International Airport
Ogle
East Coast Demerara
Guyana

Activity: Construction of Helicopter Hangars

The Trans Guyana Airways Ltd., herein referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to construct Helicopter Hangars with adjoining Apron and Terminal facilities within the Ogle Aerodrome at the Eugene F. Correia International Airport hereinafter referred to as "the Project", in the manner indicated in the Application submitted on January 12, 2021, subject to the terms and conditions set forth herein under the Environmental Protection Act, existing 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 Construction to be adhered to by the Permit Holder, his Servants, agents and sub-contractors:

1.0 GENERAL

1.1 Make an application to the Agency to vary this Environmental Permit in instances where it becomes necessary to:

- change the construction, operation, structure, or layout of the facility and all associated buildings;

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- ii. change equipment, machine, apparatus, mechanism, system or technology serving the facility;
 - iii. change the position and design of any outlet at the point or points of discharge of effluents; or
 - iv. effect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Construction works must be executed in accordance with the plans submitted to the Agency. All specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised; evidence of which must be provided to the Agency.
- 1.3 Implement all mitigation measures/recommendations as outlined in the **Construction Method Statement** submitted on April 16, 2021.
- 1.4 Consult and coordinate with contractors and the relevant/affected utility companies and local government organs such as, the Ogle International Airport (OLA), Neighbourhood Democratic Council (NDC), Guyana Power and Light (GPL), Guyana Telephone and Telegraph Co Ltd (GTT) etc. to establish schedules and mechanisms for implementation of service interruptions. Additionally, ensure that utilities/relevant authorities are consulted on the location of their facilities such as sewers, cables, pipelines, etc. to ensure that appropriate actions are taken such as relocation of utility poles, markings, temporary shut off of utilities, etc. prior to the commencement of works.
- 1.5 Construction works must not be executed between 22:00 hrs to 06:00 hrs on any day unless approval is sought from the EPA. This requirement does not apply for large concrete pours where work in the early morning and late evening is required.
- 1.6 Identify suitable areas for material stockpiles and equipment during construction.
- 1.7 Excavated materials shall be managed so as not to negatively impact habitats or pose a significant hazard to human health and the environment.
- 1.8 Remove all barriers, equipment/material staging areas, and all support infrastructure, facilities and equipment from the site upon completion of construction works and implement rehabilitation measures outlined in the Construction Method Statement.

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2.0 TRAFFIC MANAGEMENT AND PUBLIC SAFETY

- 2.1 Minimise potential adverse impacts on public health and the environment in the transport, storage and handling of construction materials for the Project. Avoid any unnecessary inconveniences to the general public through appropriate planning and management of the construction site.
- 2.2 Accommodate all vehicular and pedestrian traffic safely with minimum inconvenience through and around the construction site.
- 2.3 Install adequate traffic control devices, signage, guardrails and cautioning tape at work sites. Enforce speed limits for all vehicles that are associated with Project to minimise dust particles from becoming airborne during construction activities.
- 2.4 Notify the public of the estimated duration of the project, estimated times of works, and expected difficulties, e.g. road closures and diversions, etc. that may be encountered as a result of construction at least two weeks in advance.
- 2.5 Access shall be provided to all properties adjacent to the project site for the duration of construction period.

3.0 WATER AND SOIL QUALITY MANAGEMENT

- 3.1 Strictly comply with the provisions of the **Environmental Protection (Water Quality) Regulations 2000**.
- 3.2 Avoid erosion, siltation and sedimentation of existing water bodies/drains within the vicinity of the project site. Wastewater from washout and/or cleanout of concrete, and other construction materials or chemicals shall not be discharged into waterways, unless managed by an appropriate treatment control.
- 3.3 Limit the removal of vegetation to the extent necessary for construction works to protect the soil from erosion.
- 3.4 Install sediment controls along any perimeter areas of the site that will receive effluent discharges and remove sediment before it has accumulated to one-half of the above-ground height of any perimeter control.
- 3.5 Avoid soil and water contamination from fuel, grease, waste oils and other petroleum products that might be used at the construction site.

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- 3.6 Conduct refuelling, oil changes and maintenance of vehicles, machinery and other equipment on an impervious base.
- 3.7 Do not discharge or dump liquid or solid wastes and/or trade effluent directly into receiving waters. Waste inclusive of waste oil and/or fuel, should not be stored within 10 meters of any waterways.

4.0 AIR QUALITY MANAGEMENT AND NOISE ABATEMENT

Strictly comply with the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations 2000**.

- 4.1 Monitor noise emissions to determine compliance with the Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment. Sound levels from noise-making devices should not exceed the limits below, at a distance of 15 metres (50 ft) 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)

- 4.2 Enclose all sound-making devices, such as generators, in structures constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.), equipped with silencers/mufflers to reduce noise level.
- 4.3 Place all equipment and machinery on foundations properly designed to ensure effective damping of vibrations.
- 4.4 Generators shall be situated away from sensitive receptors and their exhaust stacks should be at least 2 metres higher than the tallest nearby building to minimise adverse fumes/soot impacts to the contiguous areas.
- 4.5 Employ dust suppression methods such as watering, erecting dust screens/fences to control dust emissions from material stockpiles and other components of the development that would generate dust.
- 4.6 Stockpiles shall be situated downwind at a maximum height of eight (8) feet to avoid being transported by wind to the residents. Loading and offloading activities shall be confined to this location.
- 4.7 Materials susceptible to wind erosion, e.g. sand, are covered at all times during storage and transport to and from the construction site, to prevent material loss and reduce emission of particulate matter into the environment.

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- 4.8 Keep drop heights at a minimum when loading and/or offloading materials e.g. sand, aggregates, etc. to reduce particles from becoming airborne.
- 4.9 Monitor, as determined by the Permit Holder, ambient air quality to determine compliance with the World Health Organisation (WHO) Air Quality Guidelines for Particulate Matter in the Environment, not exceeding the limits below:

PM_{2.5}: 25 µg/m₃ 24-hour mean

PM₁₀: 50 µg/m₃ 24-hour mean

- 4.10 Record, investigate and address complaints of excessive noise, dust and vibrations from the public promptly upon receipt. Maintain a record of all complaints received and the action taken.

5.0 HAZARDOUS & SOLID WASTE MANAGEMENT

- 5.1 Strictly adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations 2013** and the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.
- 5.2 Maintain good housekeeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 5.3 Promote proper solid waste management and disposal practices at the facility. Dispose of waste at the nearest authorised waste management site or contract an approved waste Disposal Service. Place covered garbage receptacles at strategic locations around the project site.
- 5.4 Reuse waste materials as land-filling material for the project site. However, this must be done in an aesthetic and controlled manner, the surrounding environment should not be littered with any form of wood, concrete, plastic, glass and metallic waste or any form of waste that will affect humans, flora and fauna and related biodiversity.
- 5.5 Construct and or maintain a septic system on site at all times. The septic tank should not be located within 1.5 m of a building or property boundary and should be accessible for cleaning and de-sludging. Any modification to the Septic tanks must be in accordance with the *Guyana National Bureau of Standards (GNBS) Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems*.
- 5.6 Prepare and submit to the Agency after construction has concluded, a report relating to all construction activities executed. The report shall include:
- a) the name, location and type of facility;
 - b) types and quantities (in metric units) of hazardous waste generated;

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- c) manner of storage, use, any applied treatment standards/methods and disposal of these substances;
- d) data concerning off-site shipments of waste, i.e., local disposal facility utilised, country to which hazardous waste is shipped, purpose of shipment and amount of waste shipped;
- e) a summary of any accidents that may have occurred and any action taken; any waste minimisation efforts undertaken by your facility for hazardous material/waste; and any other matter the Agency may require;
- f) any waste minimisation efforts undertaken by your facility for hazardous material/waste; and
- g) any other matter the Agency may require.

The Agency considers all materials listed in Schedules I and II of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**, to be hazardous.

5.7 Record and include in a summary table the following information in the **report** (see condition 7.3):

- a) Name and description (e.g., composition of a mixture) of the hazardous materials (e.g. fuel, waste oils, lubricants, curing compounds, concrete admixtures, paints etc.);
- b) Classification (e.g., code, class or division) of the hazardous materials;
- c) Quantity of hazardous materials used per month; and
- d) Characteristic(s) that make(s) the materials hazardous (e.g., flammability, toxicity).

5.8 Designate an area for the storage of fuel, used oil, washing detergents, sanitisers and other hazardous materials. Hazardous materials/ waste storage areas shall be clearly labelled and secured. The following warning signs shall be clearly posted:

- a) "Hazardous Waste Storage Area"
- b) Danger - "Authorised Personnel Only"
- c) No eating, drinking or smoking

5.9 Hazardous waste (e.g. fuel, waste oils, lubricants, curing compounds, concrete admixtures, paints etc.) shall be contained in bunded /kerbed storage areas. These areas shall adhere to the following requirements:

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

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- 5.10 Hazardous waste (e.g. fuel, waste oils, lubricants, curing compounds, concrete admixtures, paints etc.) shall be stored in containers appropriate for the waste stream; that is:
- a) Sealed Plastic Containers:
 - i. Water-based waste
 - b) Sealed Metal Containers:
 - i. Solvents and petroleum-based products
 - ii. Oil and oily absorbents
- 5.11 Spill equipment shall be available and utilised for containing and mitigating any spills (e.g. fuel, waste oils, lubricants, etc.).
- 5.12 Hazardous contaminated absorbent pads and materials may be disposed of at an incinerator that is approved by the Agency.
- 5.13 Hazardous waste/materials storage containers (e.g. fuel, waste oils, lubricants, curing compounds, concrete admixtures, paints etc.) shall be inspected weekly for signs of leakage, deterioration or corrosion. Damaged containers must be replaced immediately. Inspection reports must be maintained and signed by the appropriately qualified inspecting officer and his/her supervisor.

6.0 EMPLOYEES HEALTH AND SAFETY

- 6.1 Requirements of the Occupational Health and Safety Act must be adhered to so as to ensure that employees' safety and health are protected at all times. Please refer to **Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana**.
- 6.2 Personal Protective Equipment (PPE) must be worn at all times by workers on the project site(s). Adequate lighting must be provided for the execution of works between the hours of 6am – 6pm.
- 6.3 Adequate Waste disposal and Sanitary facilities must be provided during construction.
- 6.4 Ensure that portable toilets are installed in accordance with the Public Health Ordinance 1953.
- 6.5 All workers directly or indirectly involved in the Project must be trained on the requirements of the Construction Method Statement.

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7.0 EMERGENCY MANAGEMENT

- 7.1 Employ or designate an employee to the role of an *Occupational Health and Safety (OHS)/Environmental Officer* who would be responsible for the implementation and coordination of all safety requirements and terms and conditions stipulated in this Permit, as well as compliance monitoring with the preparation of all required reports to the Agency.
- 7.2 Monitor the working environment at all times for occupational hazards.
- 7.3 Prepare an Emergency Response Plan/Evacuation Plan within three months of issuance of this permit and post plan at strategic locations.
- 7.4 Ensure all employees are aware of the Emergency Response Plan, and their respective duties and responsibilities.

8.0 COMPLIANCE MONITORING AND REPORTING

- 8.1 Strictly comply with any lawful directions given by the Agency from time-to-time in furtherance of the implementation of any obligations of Guyana under any treaty or international law relating to the environmental protection of Guyana.
- 8.2 Monitor the implementation of the conditions of this Environmental Permit, insofar as they involve adherence by employees and all third parties under your direction.
- 8.3 Report to the Agency any non-compliance(s) with this Environmental Permit.
 - 8.3.1 Within **twenty-four (24) hours** of the time the Holder of this Environmental Permit becomes aware of the non-compliance, with the anticipated manner in which it may endanger human health or the environment.
 - 8.3.2 Within seventy-two (72) hours of the time the Holder of the Environmental Permit becomes aware of the non-compliance, submit to the Agency a written report containing a description of the non-compliance, its cause, the period of non-compliance including exact dates and time and the anticipated time it is expected to continue if the non-compliance(s) has not been corrected.
- 8.4 Submit a **Report** to the Agency at the end of construction on your compliance with this Permit.

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- 8.5 Notify the Agency within **twenty-four (24) hours** of the occurrence of any environmental emergencies such as a sudden onset of disaster, accident, natural, technological or human-induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood.
- 8.6 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the project.
- 8.7 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.

9.0 INSTITUTIONAL AUTHORITY/LIABILITIES

- 9.1 The Permit Holder shall be strictly liable for any loss or damage to the environment through any act caused intentionally or recklessly, through the adverse effect of any discharge or release, or cause or permit the entry of pollution, contaminant(s) in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Environmental Permit, which are attributed to the Project, pursuant to **section 39 and section 19 (1) and (2) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.**
- 9.2 The Permit holder shall be guilty of an offence in accordance with s. 39 (1), (2), (3) and (4) of the **Environmental Protection Act, Cap. 20:05, Laws of Guyana**, which attribute liability for causing material or serious environmental harm by polluting the environment intentionally or recklessly and with the knowledge that material and/or serious environmental harm will or might result. If found guilty of an offence, the Permit Holder shall be liable to the penalties prescribed under the said Act.
- 9.3 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed Project (See: **section 19 (3)(e) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.**)
- 9.4 The Permit Holder shall not be indemnified by the Agency for any activity that causes or is likely to cause pollution to the environment, resulting from adverse effects through the discharge of, any contaminant in any amount, concentration, ultra-hazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the **Environmental Protection Act and Regulations.**
- 9.5 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his servants and/or agents, to the

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environment, biodiversity, protected species and natural habitat with respect to any release, discharge, or spill, of contaminant fluids, oil or lubricants.

- 9.6 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an enforcement notice in accordance with **section 26** of the **Environmental Protection Act, Cap. 20:05, Laws of Guyana**.
- 9.7 Where it appears to the Agency that the Permit Holder is engaged in any activity that may pose serious threat to natural resources or serious pollution of the Environment or any damage to public health, issue to the Permit Holder, a Prohibition Notice, which may order him to immediately cease the offending activity, in accordance with **section 27** of the **Environmental Protection Act, Cap. 20:05, Laws of Guyana**.
- 9.8 The Agency reserves the right to conduct regular inspections of the Permit Holder's construction activities as part of its monitoring and enforcement requirements under the **Environmental Protection Act, Cap 20:05**, and the **Environmental Protection (Amendment) Act, 2005**, and **Environmental Protection (Authorisations) Regulations, 2000**.
- 9.9 The Permit Holder, his servants and/or agents 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.
- 9.10 The Agency shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 9.11 **This Environmental Permit is not the final consent; the Permit Holder is obligated to ensure that the construction of the Helicopter Hangars is permitted by all other relevant authorities.**
- 9.12 This Environmental Permit is effective for the period stipulated herein, **October 2021 to September 2022**.
- 9.13 This Environmental Permit shall remain valid until **September 30, 2022**, unless otherwise suspended, cancelled, modified or varied, 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.

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- 9.14 This Permit must be renewed by submitting "an Application for Renewal of Environmental Authorisation" to the Agency at least six (6) months before this Permit expires, that is, no later than **March 31, 2022**
- 9.15 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 renewal fees, 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 day for 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.
- 9.16 Failure to comply with the requirements of this Environmental Permit shall render the Permit Holder liable to prosecution and to penalties prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, 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.

Kemraj Parsram
Executive Director

Date 18.10.2021

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, all subsidiary legislations made under the said Act and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	ANA CORREIA
SIGNATURE:	
DESIGNATION:	ADMINISTRATIVE SERVICES MANAGER.
DATE:	20th OCTOBER 2021.

