



Lot. 6, Suddie, Essequibo Coast, Guyana, South America. Telephone: (592) 681-4343/677-4563

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PROJECT SUMMARY

Operation of Medical Diagnostic Laboratory

Help-Ever Special Clinic

Prepared for: Environmental Protection Agency Guyana

Location: Georgetown, Guyana

Prepared by: Tashmeni Ram Singh

Date: 26th February 2026



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Description of the Site

Help-Ever Special Clinic is an outpatient medical facility providing laboratory diagnostic services. The laboratory operates within a designated enclosed room and performs blood collection and analysis only. The surrounding environment is urban. No discharge of untreated laboratory waste into surface water or soil occurs. Liquid waste from routine cleaning is disposed of to the septic tank and emptied via Puran Brothers Disposal Services.

Project Design and Activities

Laboratory Activities:

- Collection of venous blood samples
- Hematology testing (Complete Blood Count)
- Biochemistry testing (KFT, LFT, Lipid profile)
- Immunology and endocrinology testing

No chemical manufacturing, radiological work, or industrial processing is conducted.

List of Equipment, Purpose, and Noise Levels

<u>Equipment</u>	<u>Purpose</u>	<u>Noise Level</u>
Zybio Hematology Analyzer	Complete Blood Count (CBC)	30-35 dB
Zybio Biochemistry Analyzer	KFT, LFT, Lipid Profile	30-35 dB
MNCHIP Biochemistry Analyzer	KFT, LFT, Lipid Profile	30-35 dB
AFIAS-3 Analyzer	Immunology & Endocrinology Tests	30-35 dB

These are modern automated analyzers that operate at very low noise levels comparable to a quiet office environment and do not contribute to environmental noise pollution.



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Utilities

- Electricity supplied by GPL
- Water supplied by GWI
- No industrial utilities are used

Waste Management

- Types of Waste Generated:
 - Biohazard waste: blood-contaminated cotton and gauze, vacutainer tubes, test cartridges, pipette tips
 - Sharps: needles and lancets
 - General waste: paper and packaging materials
 - Liquid waste: waste from the Hematology and Biochemistry analyzer.

Quantity of Biohazard Waste:

Sharps: Approximately 5 kg per week (depends on the patient's volume).

Liquid waste: Approximately 20 liters per week (depends on the patient's volume).

Waste Segregation and Storage: Red biohazard bags are used for infectious waste. Puncture-proof sharps containers are used for needles and lancets. Waste is stored in a designated, labeled, secure area away from patients. A waste log sheet is maintained and available in the laboratory folder.

Waste Disposal Method: Biohazard and sharps waste are collected and disposed of by Public Hospital Suddie to be incinerated. The general (non-infectious) waste is collected and disposed of by Puran Brothers Disposal Services.

Human Resources

The laboratory is staffed by one (1) Medical Laboratory Technician and one (1) Medical Laboratory Assistant trained in infection prevention and control, medical waste segregation, spill management procedures, and the use of personal protective equipment (PPE). There is also one Medical Doctor, one Receptionist, one Human Resources Personnel and one cleaner at this medical facility.



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Non-Technical Summary

Help-Ever Special Clinic operates a small diagnostic laboratory performing routine blood tests. The laboratory uses modern, low-noise automated equipment and generates very small quantities of medical waste. All hazardous waste is properly segregated, logged, stored, and collected by an authorized disposal service. The operation does not release harmful chemicals, emissions, or untreated waste into the environment.

Potential Environmental Impacts

- Small quantities of biohazard waste
- Minimal wastewater from routine cleaning
- Low electricity usage
- No air emissions
- Noise levels are very low and confined within the laboratory

Mitigation Measures

- Use of color-coded biohazard bags and sharps containers
- General (non-infectious) waste disposal by Puran Brothers Disposal Services
- Infectious waste is disposed of through Public Hospital Suddle (incineration)
- Maintenance of waste log sheets
- Written spill management procedure in place
- Staff trained in infection control and PPE usage
- Routine cleaning and disinfection of laboratory surfaces

Project Duration

The laboratory operates continuously as part of the clinic's healthcare services.

Dr. Ordelis R. Gonzalez



Geriatrician / ICU (MD, MSC)
Consultant Reg #F: 2828
Dr. Ordelis Ramirez Gonzalez

CEO / Medical Director

Help-Ever Special Clinic