



## CHUCH VIEW HOTEL

Lilowtie Bhookmohan

333-4146, 333-2880

Paeshanie Bhookmohan

657 - 0910

Taran Rovin Ramdial Bhookmohan

621-9903

Created by

TARAN BHOOKMOHAN

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# 1 Project Environment

The Church View Hotel is located within the town New Amsterdam, Berbice at coordinates 6.224936° N, 57.51801° W. It is located on the major access road called Main Street coming from the Berbice Bridge. It is nestled at the beginning of the commercial area with several business such as hardware stores, hotels, gas stations amongst others, found close by (see Figure 1).

This is an existing hotel that has been in operation before 1974 when it was purchased by the Bhookmohans. Given the location of the hotel, it has contributed significantly to the social environment in the form of employment over the years in operation.

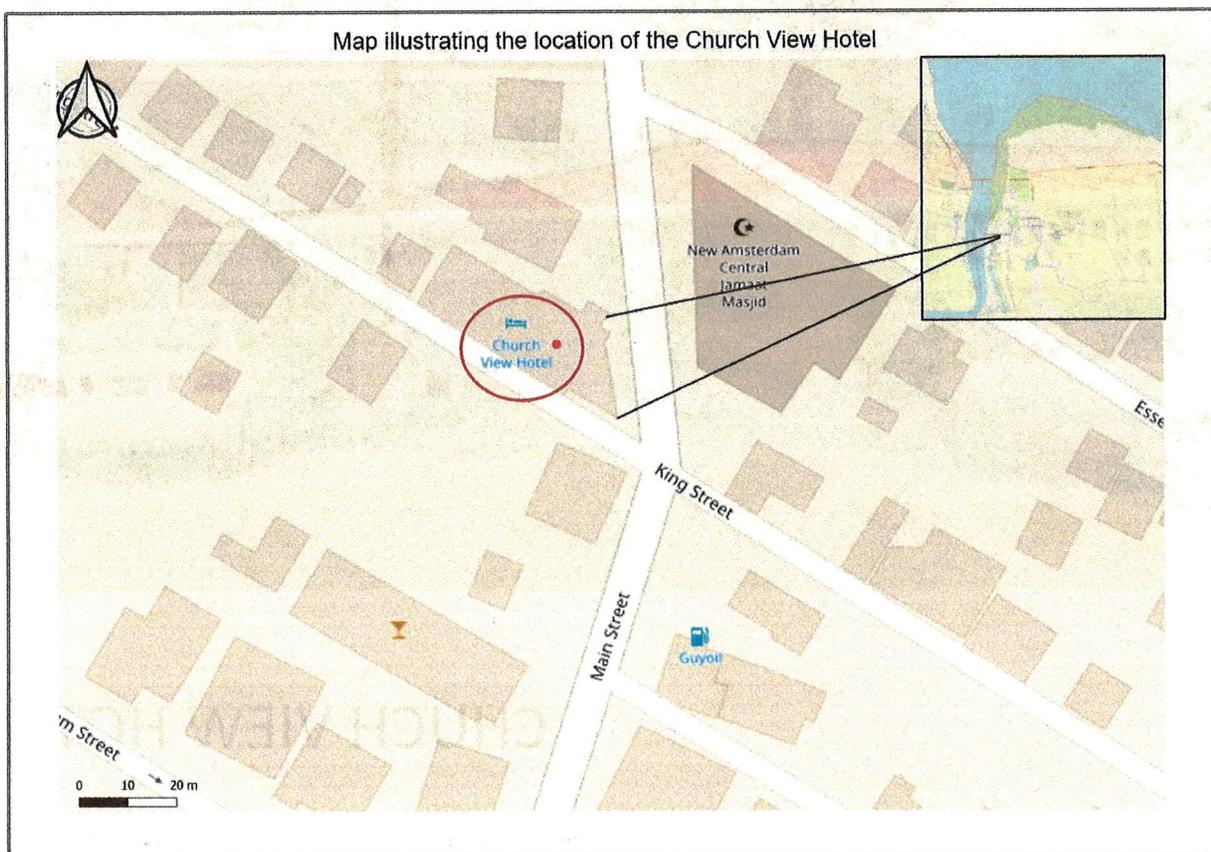


Figure 1: Map illustrating the location of Church View Hotel

## 2 Project Description

### 2.1 Construction of the Hotel

In August 1974, an existing hotel with 10 rooms, a restaurant, and a bar/disco was purchased. In 1979, renovations were carried out to add 8 more rooms. The disco was closed in 2005, and the space was converted into a bar, conference hall, gym, and office. During the COVID-19 pandemic, the gym and office were closed and repurposed into a storeroom. Recently, the office was converted into an additional room.

### 2.2 Operation of the Hotel

The hotel operation is 24hours with approximately 20 persons employed at the hotel, with the majority working between the hours of 8 AM and 4 PM and a minimal night staff in the nights. Their responsibilities span various roles, including administration, kitchen duties, cleaning, and repair and maintenance.

Regarding the operational activities of the hotel, it is important to note that the potential impacts highlighted in Section 3 are dependent on guest presence during peak tourism seasons. These peak periods include holidays, special occasions, events, and the months of July to August, as well as December.

### 2.3 Sources of Utility

**Water Consumption** - Water is supplied from Guyana Water Incorporated which is filtered with and onsite filter at the hotel and then stored in storage tanks for use. During operation, there is an increase in wastewater generated which are drained in the existing drainage. These drains surround the entire hotel. The eastern drain, located about 3 feet from the front gate, and the northern drain, situated approximately 3 feet outside the fence, are outside the compound. The western drain, about 5 feet from the back wall of the building, and the southern drain, about 3 feet from the side wall of the building, are within the hotel's compound. All drains connect at the northwestern end of the compound. On an average day, the hotel uses approximately 500 gallons of water, based on the tank capacity. The laundry water is discharged directly to the northern side. Water consumption tends to be slightly higher on weekends. There is no treatment of any water leaving the building.

**Waste Management** - The hotel generates approximately 2 barrels of waste, which is collected twice weekly. The waste consists mostly of paper, plastics, and organic material. A grease trap will be installed in the near future for the kitchen sink.

**Electricity** - The hotel has a 25KVA diesel standby generator located in the northwest corner of the compound. This generator is only used during power outages, which are infrequent. No fuel is stored on-site, as there is a fuel station located obliquely across the road where fuel can be purchased and poured directly into the generator's tank.

### **3 Project Size**

The total area of the Church View Hotel is approximately 10500SqFt. The hotel measure approximately 5000SqFt x 3 storeys. It comprises 21 rooms, a conference hall, and a dining area. All rooms are equipped with amenities such as king- and queen-sized beds, television, air conditioning. The staff comprises 20 persons which includes kitchen staff, cleaners, security guards, receptionist, and handymen.

Qualified and experienced persons were hired for the positions above and training will be done in areas of customer service, housekeeping and health and safety to allow them knowledge and expertise in the area of hospitality.

## 4 Environmental Impacts

Given that this is an existing hotel, the environmental impact of this hotel are related to operation rather than proposed construction. The following table shows the various services or activities of the Church View Hotel and their impact on the environment.

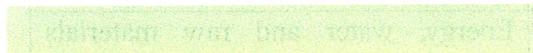
*Table 1: Environmental Impacts from Church View operational activities.*

Service/Activity	Description	Main Environmental Impacts
Administration	Hotel Management Client Reception	Energy, generation of waste (paper and plastic) and generation of toner cartridges and e-wastes
Technical Services	Air conditioning, lighting, equipment for producing hot and heating, repairs and maintenance, and power generator	Energy and water consumption; generation of air emissions from power generator; generation of wastewater
Restaurant/Bar	Meals, beverages and snacks, cooking	Energy, water and raw materials consumption, packaging and organic waste, risk of fire
Kitchen	Food conservation, Food preparation, Dish washing	Consumption of energy and water, Packaging waste, Oil waste, Organic waste, Generation of odours
Room Use	Use by guests, products for guests' use, housekeeping	Energy, water consumption, use of hazardous products for cleaning, generation of waste packaging, wastewater
Laundry	Washing and ironing of guests' clothes, washing and ironing of hotel linens	Consumption of energy and water, use of hazardous cleaning products and generation of wastewater

Table 2: Environmental Impact Matrix for Church View Hotel

Activity \ Env. Impact	Administration	Technical Services	Restaurant/Bar	Kitchen	Room Use	Laundry
Water Consumption	Low	Low	Low	Low	High	High
Wastewater Generation	Low	Low	Low	High	High	High
Waste Generation	Low	Low	Low	High	Low	High
Energy Consumption	Low	High	Low	Low	High	High
Air Emission	Low	High	Low	Low	Low	Low

Key

	Low Significance
	Medium Significance
	High Significance

A visualising weighting impact matrix was prepared for the operational activities and its environmental impacts for the Church View Hotel. Based on this matrix, most of the operational activities has a low environmental impact. Those activities rated medium significance received this rating considering the peak tourism season, which otherwise will be a low rating (for most of the year).

## **5 Mitigation Measures**

For the main environmental impacts identified in Table 1, the following mitigations measures are in place:

### **5.1 Energy Consumption**

Energy conservation practices in the Church View Hotel is an essential mitigation measure for reducing environmental impact and operational costs. By implementing energy-efficient lighting systems, such as LED bulbs, electricity consumption are significantly reduced. Utilizing energy-efficient appliances further enhanced energy savings.

Guests are encouraged to participate in energy-saving initiatives, such as reusing towels and linens, turning off the AC and unplugging chargers from outlets when not in use thereby contributing to conservation efforts. Regular maintenance of equipment ensures optimal performance and energy efficiency. These practices not only lower the Church View's carbon footprint but also creates a sustainable and eco-friendly environment.

### **5.2 Water Consumption**

Water conservation practices at Church View is crucial for its sustainability and environmental responsibility. The Hotel has implemented low-flow fixtures, such as faucets, showerheads, and toilets, to reduce water usage significantly without compromising guest comfort. Installing water-efficient laundry machines and encouraging towel and linen reuse programs can further minimize water consumption. An oil trap will be installed to capture oils and grease generated from the kitchen.

Regular maintenance and prompt repair of leaks prevent water wastage. By adopting these measures, the Church View Hotel conserves water resources, reduce operational costs, and appeal to eco-conscious guests.

### **5.3 Waste Generation**

#### **5.3.1 Solid waste**

Currently, waste is collected twice a week from Church View Hotel. This regular waste collection ensures that waste is managed efficiently and prevents overflow, maintaining a clean and hygienic

environment. While there are no reuse or recycling measures in place, every activity that potentially generates waste has implemented reduction techniques as much as possible. Guests are encouraged to participate in waste reduction efforts, such as minimizing single-use plastics and using refillable toiletries, also helps in lowering overall waste generation.

### 5.3.2 Hazardous Waste

The hazardous chemicals used when cleaning will be handled with great care. Employees using these chemicals ensure compliance with chemical usage specifications and proper disposal of empty containers according to instructions on the bottles and in the waste receptacle. Employees wear protective gloves and when necessary a face mask when handling chemicals.

### 5.3.3 Wastewater

At Church View Hotel, greywater and sewage from the toilets are treated in septic tanks, whereas greywater from the kitchen, cleaning, and laundry is directed into the drainage system.

## 5.4 Air Emissions

The air emissions generated from the use of the generator are considered negligible as the generator is only used during power outages and not for extended periods. However, best practices regarding maintenance and operation are and will continue to be followed to ensure that even during its limited use, emissions are minimized. Regular checks and compliance with local regulations will help ensure that the generator's environmental impact remains low.

## 5.5 Risk of Fire and Explosion

There is the possibility that cooking, smoking by guests/patrons, use of electrical equipment and appliance may lead to a fire if proper measures are not in place. The Church View Hotel minimises this risk ensuring that safety guidelines are adhered to by the kitchen staff. Rooms are regularly inspected for damaged outlets, switches and air conditioning units and these are replaced promptly if they are found damaged or with defects. Signs of no smoking will be erected and staff and guests will adhere to this.

Gas cylinders will be checked properly and installed. Firefighting equipment will be placed at strategic locations and staff will be trained on the use. Emergency procedures will be in place and staff will be trained on this. Guests will be made aware of this procedure.

## **6 Non-Technical Explanation**

The Church View Hotel is a quaint, little hotel located within the city center of New Amsterdam. It comprises of 21 rooms and provides short term accommodation on a reservation basis. Reservation is available on the spot or can be booked in advance. There is a restaurant which is known for local cuisine for guests. Daily operation of the hotel is provided by a staff of 20 persons. Electricity, water and waste collections are provided by local services such as Guyana Power and Light, Guyana Water Incorporated and a local waste collector. The daily activities of this hotel work collectively to ensure that not only guests are satisfied with the service provided to them, but also that the environment is kept clean. All impacts are mitigated and there is no stress on the environment as all resources are used efficiently and sustainably and the health of both the staff and guests are considered and protected.

