OPERATION PROJECT

BHAGWANDIN ENTERPRISE

FUEL STATION

LOT 23 LINE PATH ‘E’

CORRIVERTON, CORENTYNE, BERBICE

TEL NO: 339-2417/618-3664

PREPARED BY: S. BHAGWANDIN

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2. Project title: Fuel station situated at Lot 23, Line Path ‘E’ Eastern side of the public Road.

The left and right boundaries are vacant also separated by a concrete fence. The western side is vacant with an airstrip land. The drainage site is along side of the public road .

Fuel station construction measurement is available on the plan. The site has separate entry and exits points designed to facilitate a one way, circular flow of traffic to minimize, congestion and ensure safety. Fuel Dispenser Islands: The layout features 3 fuel pumps on pump islands positioned under a large canopy. The canopy is high to accommodate various vehicle sizes and provide shelter.

One 6000 litres underground storage tank is located in a designated secure area of the site to store regular premium fuel with steel pipe attached for emission.

Also 2 upper steel tanks for kerosene storage with capacity of 1-2000 Litres and 1- 4000 Litres. Diesel storage has 2 upper steel tanks with 1-4000 Litres and 1-9000 Litres.

An office of a rectangular shape is situated near the fuel pumps for easy customer access.

The Lower part of the building houses a store with aisle wide space enough to check out display on shelves and the upper part houses the control switch board for the fuel system.

Soon to design and connected to an oil- water separator to manage rainfall, run off and prevent fuel contamination.

The entire facility is designed with energy- efficient lighting for night time safety and also CCTV cameras for security.

Also LPG gases, water, beverages and Lubricants are sold on the site.

3. a) This project of fuel station located on Lot 23, Line Path ‘E’ Eastern side of the Public Road was planned, drafted, designed and guidelines, pertaining of construction was executed accordingly for operations.

b) Guyana Water Authority Inc supplied water on the project site.

The utilities for energy / electricity are Guyana Power and Light (GPL) also diesel generator for back up size KVA 100 Kw

One communication wireless and mobile phones are on the site.

c) Waste Management

Hazardous Waste

1) Fuel and oil. Waste fuel contaminated absorbents and used oil must be managed due to ignitability and toxicity.

2) Filters: Can be recycled as scrap metal when fully drained

3) Spill Kits: Stock absorbents and ensure skillful training.

4)Storage: When storing hazardous waste in a good, leak proof containers in a secured area.

Non-Hazardous Waste

1) Recycling: Separate and recycle paper, plastics and metal

2) Dil-water separators: Effluent from the site should pass through these systems to remove oil before discharged.

Air emission: Are controlled by long attached steel pipes on to the gas tanks where fumes are disbursed into the atmosphere. Also refuelling disbursement is short term.

Noise Pollution: Is constant on fuel station site due to motor engines which is considered short term.

Waste Management / Treatment

1) Can be minimize through efficient practices and proper maintenance

2) Employee training: Corrective measures should be revelant on emergency spillage.

3) Emergency Spillage: Relevant authorities should be Informed and and emergency shut off.

4) Provide services of waste haulers for hazardous and non-hazardous waste pick up and disposal done by the mayor and Town Council of Corriverton.

4) Project size of the fuel station is shown in the plan which usually accommodates fuel pumps a canopy, store and office.

One-way circular flow accommodates the traffic of free and efficient ingress and egress for vehicles.

Storage capacity on site. Underground 6000(L) steel tank for gasolene. One Fuel tanker 19000 L capacity.

Safety Bunded containment consisted of two steel tanks of capacity of 2000 litres and 4000 litres for Kerosene.

Two steel tanks of capacity of 4000 (L) and 19000 (L) for Diesel Fuel Station.

Opening hours:

Monday- Saturday: 7:00 am- 5:30pm

Sunday: 7:00 am - 12:30 pm

Employee, one on site

Capital investment- unknown

5) A fuel Station (also called a gas station, petrol station or filling station) is a Facility that sells fuel for motor Vehicles. It is essentially a local Supply point where large amounts of fuel are safely stored and then conveniently dispensed into individual vehicles.

Storage: The fuel station receives large deliveries of fuel (like gasoline, diesel and Kerosene) via tanker trucks. This fuel is stored in large secure tanks, which are almost and always safely underground and upper ground.

Dispensing: When a driver needs fuel, they pull up to a pump. The pump is connected to those underground tanks by pipes.

Pumping and Measuring: When the driver starts fueling, an electric pump draws the fuel from the underground tank through the pipes and up into the car's fuel tank via a hose and nozzle. As the fuel passes through the pump a meter precisely measures exactly how much is displayed on the screen so the driver knows how much to pay.

Payment and Safety. The driver pays at the pump. Safety features, such as automatic shut off valves in the nozzle, prevent overfilling and spills.

Also beverages and water is available for purchase on Site.

6. The fuel station at Lot 23 Line Path 'E' Eastern side of the public Road was owned and established in the year 2010 by my late husband Mr. MAHENDRA DATT BALRAM where as accompanied by myself Ms. SAVITREE BHAGWANDIN in its operations and management execution.

However, in the future the operations will continue by the children.

7. Potential effect of the project on the environment strategies

Land Effects	where as the contaminated soil requires removal with sequestration in landfills which is expensive and challenging also legacy contamination.	Restoration/ Rehabilitation
Soil Effects	nearby the environment if contaminated with spills and leaks which will obviously lead to physical, chemical and biological properties these effects include impaired plant growth and exposure of toxins.	Avoidance
Water Effects	petroleum contaminants can reach ground water by rainfalls washing leads to drainage. Also surface water contamination can harm aquatic ecosystem and disrupt local diversity.	Reduce
Air Effects	within the environment gasoline is highly volatile whereas significant amounts emit during storage, transfer and refueling. Limits of the compound contribute to local air pollution which harms air quality and can affect both human and ecosystem health.	Minimization

8. Plans to mitigate environmental impacts focus on reducing energy use, waste and pollution through strategies like adopting renewables, improving efficiency.

(reduce, reuse, recycle) using sustainable materials and enforcing regulations for Continuous improvement.

Stringent regulatory overview, engineering control and ongoing inspection and monitoring to inspection and monitoring to protect both the environment and public health.