

Maripa Fuel

Blending Facility

SHI-OIL BULK TERMINAL

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Description of the project

The fuel blending facility will be the first of its kind in Guyana. It will be located at Maripa, along the Essequibo River, opposite Fort Zeelandia. It will be constructed on approximately **27.075 acres** of transported land. There will be storage tanks, a loading bay, housing/office facilities for staff and visitors and a wharf. This area is sparsely populated and can be seen as underdeveloped (few houses and very far apart) and can be accessed using the Hubu access road from Parika. Due to the design of this facility (with large containment walls) there will be limited risks for the immediate environment and the Essequibo River during its daily operations.

This facility will consist of four main tanks which is approximately 80,000 barrels and 10 smaller tanks which is approximately 15,000 barrels. These will be filled mainly from fuel ships. The fuel in these tanks will be mixed to produce different grades of fuel.

This proposed project area is relatively flat and is covered by shrubs and grass. The plot has not been developed and has no houses.

No study of the plant and animal species in the area was conducted, however secondary forest can be seen in the adjacent plots.

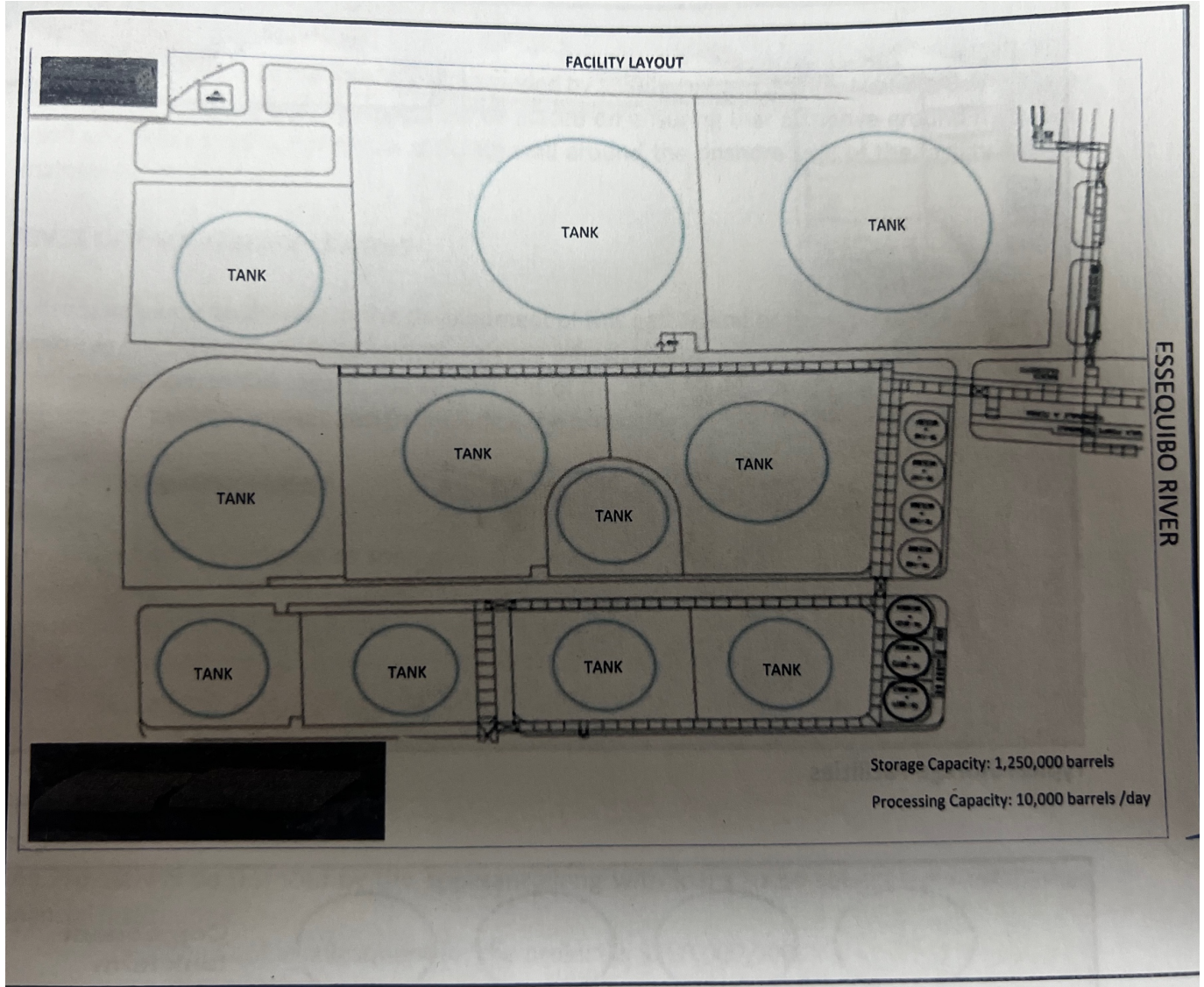
(iii) Map



Figure 1 Proposed site for fuel blending at Maripa (includes geographic coordinates)

3. A description of the design of the proposed which shall include:

(i) Site layout



- (ii) This project is budgeted at USD \$60M and will employ approximately 100 persons during construction phase and 10 persons during its full-time operation. It is estimated to blend 5 million gallons of fuel per month consisting of different grades of gasoline, diesel and kerosene. This project will be undertaken in three phases:

PHASE	ACTIVITY	SAFE GUARD
#1 Clearing and Construction of base and wharf	<ul style="list-style-type: none"> • Clearing existing shrubs, • leveling the land, • driving piles at the base for the tanks • casting the base in concrete • revetment and wharf construction 	<p>-Debris will be taken away from site and not pushed into the river, canal or adjacent properties</p> <p>-since the area isn't populated, noise nuisance won't be an issue</p> <p>-piles will be stored on the property vs on the main road</p>
#2 Offices, visitor washroom, changing room, store room and pump/transfer houses	<ul style="list-style-type: none"> • Construction of offices for administration purposes • pump houses to secure connections where fuel will be transferred and a • storage facility for equipment and materials 	<p>Offices will be built with the approval from the relevant authorities and debris will be disposed off-site</p> <p>Pump houses will be built with containment walls in case of a spill or leakage</p>
#3 Pipes, tanks and loading bay	Construction of tanks, loading bay for trucks and installation of pipelines	<p>Tanks will be erected a safe distance from both waterways with limited connecting part on the pipelines</p> <p>Bases with bond walls will be built at the wharf where pipes will be connected</p> <p>Tanks will be built of carbon steel with 6 feet bond walls</p> <p>Oil and water separators will be installed</p>

		A twelve-truck loading bay will be constructed with a large shed and solid floor base
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- (iii) This project will have fuel being brought to the facility, placing it in storage tanks and opening those tanks simultaneously when filling the vessels/tankers of customers. Additives will be used for coloring. Petroleum and energy products will be added to these fuels. Blended fuels will be dispatched to gas stations and other facilities.
- (iv) No raw natural materials will be used at this facility.
- (v) Electricity will be provided by generators on the site, communication will be provided by the networks of GTT and Digicel and water will be supplied by GWI and from the Essequibo River (this will be filtered).
- (vi) Waste will be generated by staff and visitors at the facility. This waste will be removed by contracted garbage trucks and waste disposal services for septic tanks. Carbon monoxide will be given off by the generator but not in large quantities. Solar power will be a consideration.
- (vii) This project will be done in three phases. Construction will last approximately six to eight months and this project will be operating continuously for the life of the business which has no estimated closing date in the foreseeable future.

4. Potential Impacts and their significance

- (i) Contractors will be held to safety and environmental standards during the construction phase to ensure that waterways are not contaminated by

debris or chemicals from cement. Our HSE Officer will be responsible for monitoring the site during these operations. Contracts will include the rules set out by SHI-oil to safe guard the environment and will attract penalties that will be sufficient to repair any damage caused.

- (ii) Fuel Spill during transfer – this can significantly affect the biodiversity of both the terrestrial and aquatic environment. However, areas where fuel will be transferred will be monitored and will have solid floors where spills can be properly taken care of before getting into the water or soil.
- (iii) This project does not cross-country borders or boundaries with the exception of importing fuel.
- (iv) As described in section (I) the possible impacts are not complex.
- (v) Strict protocols will be observed and would therefore significantly reduce the probability of these impacts
- (vi) There are no other projects that in the area.

5. On site, protocols will be observed to minimize any adverse impacts to the environment. However, in the surrounding area, measures (e.g. calling relevant authority or trained personnel) will be put in place in the event of wildlife being affected or instances of human wildlife conflict on the site.

Other Considerations

8. Fuel has several grades based on the components it possesses. This project will be mixing different grades which will ultimately produce other grades.