



Guyana Sugar Corporation Inc.

Demerara Sugar Terminal

PROJECT SUMMARY – EPA PERMIT

Name of Project: Project Summary- Demerara Sugar Terminal (GUYSUCO)

Name of Company: GUYSUCO- Demerara Sugar Terminal

Contact Details: Ramp Road Ruimveldt
592-225-6061/ 592-226-4343

Prepared by: Operations Manager-DST.

Dated: 2023/05/08

Layout and Land use

The Demerara Sugar Terminal was constructed in the years 1959/1960 by Simon Handling Engineers CO. Ltd of London and Soil Mechanics LTD. The contract to build DST began in January 1959 and was completed in September 1960, at that time DST was a subsidiary of Booker Bros. McConnell & Co. Ltd. Around 1989 DST ceased to be under the Guyana State Corporation (Guystac) umbrella and became a part of GuySuCo.

Soil mechanics LTD constructed the bulk sugar store buildings, the jetties and the foundations to the ancillary conveyor structures, as well as the service roads and the drainage schemes. Pre-stressed concrete buoyant foundations were proposed and adopted by soil mechanics LTD as the most suitable and economical method for the particular soil conditions.

The terminal consisted of two raw storage buildings of about 375ft in length and 120ft width, the two bonds can house a capacity of 20000 tons each. A number of ancillary structures were also constructed to complement the marine loading facility, Road Intake house, Conveyor junction Tower, Weigher house, on shore conveyor trestles and power house. These reinforced concrete foundations sit on Rendhex steel piles averaging 120ft in length.

The jetties and marine structures were later constructed with an offloading jetty of 63 ft. by 36 ft. to accommodate small vessels at discharge point. The loading jetty is 416 ft. by 45ft for bulk carrying vessels up to 12000 tons. These structures have steel piles of lengths varying 90 to 100ft.

The Terminal consists of Six (6) main points of operation, all of which are intricately linked by a system of conveyors:

- (1) Road Intake
 - (2) River Intake
 - (3) Scale House
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(4) Control Tower

(5) Sugar Stores

(6) Outloading

Functions

Operations at the terminal commenced in 1960 with the facility designed to receive, store and export raw bulk sugar from the estates using two storage bonds and a conveyor system. Bagged and packaged sugar is also stored and distributed manually via the storage bonds.

Bagged and packet sugar distribution is now also a main activity at DST, along with the storing and exportation of rice for the Guyana Rice Exporters and Millers Association (GREMA).

In the process of receipt and export generated power, flammable fluids such as gasoline, diesel fuel and lubricants are stored and used to fulfill operational needs. At the riverside mangroves and sea defence form part of the existing wharfside development at DST.

In this regard an Environmental permit is necessary to be legally compliant to the local authority (Environmental Protection Agency, Guyana).

Source of Utilities

Electricity: Guyana Power and Light
Generated Power (Perkins 2800 series generator 500KVA)

Water Supply: Guyana Water Incorporated
Ultra Investments Inc. - Drinking water

Waste Disposal: CEVONS Waste Management(Solid waste and septic waste)

Communication: Information systems Department- Guysuco
Guyana Telephone and Telegraph Company

Project Size

Capital Investment: Estimated - 6 Billion

Current Staffing

Weekly workers-	24
Supervisors-	3
Clerical Staff-	4
Confidential Secretary	1
Operations Manager-	<u>1</u>
Total	<u>33</u>

Rate of production

Export - 250 metric tons per hour during loading operations.

Intake - 100 metric tons per hour during discharge operations.

Plans to mitigate environmental impacts

Drainage

During washing of conveyors and cleaning, water rich in sugary materials would be discharged into the drains, this however has not proven toxic to aquatic life or otherwise. These Drains are cleaned and flushed as necessary.

Pollution

Generated, power system highly controlled and sealed. All gases are directed through long stacks high into the atmosphere away from residents and workers. Generator is only used to power the conveyors during operation. A containment wall is in place around fuel tanks to avoid any spillage spreading to nearby drains.

Waste disposal

All waste at DST is disposed of under Government laws by a private institution (CEVONS) at the national designated area/dumpsite. A contractual arrangement is in place between GUYSCO DST and Cevons for a weekly clearance of waste as well as annual vacuuming of septic waste.

Sea defence

At the wharfside mangroves are maintained by DST which form an integral part of the sea defence and natural activity. This serves as a key indicator of environmental protection compliance.

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