PROJECT SUMMARY

COCONUT INTERNATIONAL WATER

PREPARED FOR:

Environmental Protection Agency

PREPARED BY:

Dipchan Persad

PROJECT SUMMARY

(Prepared in accordance with Section 11(1) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana)

Name of Developer:
Dipchan Persad

Registered Address:
Lot 477, Plantation Providence
East Bank Demerara 4
Guyana

Project Location:
Grant Vreed-En-Hoop, Pomeroon
Essequibo, Guyana

Type of Development:
Agro-processing facility for the bottling of natural coconut water and the production of coco peat

Date Prepared:
December 17th 2025

---

2. Description of the Site

The project is located in the Pomeroon region of Essequibo, Guyana, an area well known for its fertile soils, extensive coconut cultivation, and river-based transportation network. The project site is strategically positioned to allow efficient access to raw materials from nearby coconut farms and efficient transport routes to Georgetown for local distribution and export.

The area of influence includes the factory site and surrounding agricultural lands from which coconuts will be sourced. Existing land use in the project area and adjacent lands is predominantly agricultural, with coconut farming being a primary activity.

The factory will house coconut washing, sanitizing, extraction, filtration, bottling, labelling, cold storage and dispatch operations. Water sources, intake points, and discharge locations will be identified and managed in accordance with applicable environmental standards.

---

3. Project Design

a) Development Activities

The project will involve the following stages:

- Daily purchase and receipt of mature coconuts from local farmers
- Sorting, washing, and sanitizing of coconuts
- Cutting and extraction of coconut water using stainless-steel equipment
- Filtration, bottling, sealing, labeling, and batch coding
- Cold storage and refrigerated distribution
- Sale and distribution to local and international markets
- Collection and reuse of coconut husks for compost or coco peat production
- Ongoing operational maintenance.

b) Utilities and Services

The facility will utilize:

- **Water:** Used for washing, sanitizing, and cleaning
- **Energy:** Diesel-powered utilities and electrical equipment
- **Transport:** River and road transport; refrigerated delivery vehicles (rented)
- **Communications** and transport services to support operations and logistics

c) Waste Management

Waste streams will include:

- Organic waste (coconut husks, shells)
- Packaging waste (bottles, labels, boxes)
- Wastewater from cleaning operations

4. Project Size

The project is a **medium-scale agro-processing facility** with the following characteristics:

- **Daily Production Target:** Approximately 1,670 bottles (2L equivalent)
- **Products:**
    - 500 ml bottled coconut water
    - 1 L bottled coconut water

    - 2 L family-size bottled coconut water
- **Capital Investment:** Approximately **GYD $44.4 million**
- **Employment:**
    - Management and supervisory staff
    - Approximately 15+ factory, logistics, and support workers during operation (staff will be assigned to more than one task).

It will generate employment during both construction and operational phases and will contribute to value-added agricultural production. Output will include bottled natural coconut water and processed coco peat, scaled to meet domestic demand and export markets in the Caribbean and North America.

---

5. Non-Technical Description of the Project

The project involves collecting fresh coconuts from local farmers, extracting the natural coconut water, and bottling it in a clean and hygienic facility for sale locally and overseas. Coconut husks that would normally be discarded are instead processed into coco peat, an environmentally friendly material used by farmers and gardeners. The project supports farmers, creates jobs, and promotes sustainable use of natural resources.

---

6. Duration of the Project

- **Construction and Facility Setup:** Approximately 9 months
- **Establishment of Coco Peat Processing Unit:** Within 6 months
- **Operational Phase:** Continuous, long-term operation

---

7. Potential Environmental Effects

Potential environmental impacts associated with the project may include:

- **Land and Soil:** Minor disturbance during construction and facility installation
- **Water:** Consumption of water for processing and cleaning activities
- **Air:** Limited emissions from equipment operation and transportation
- **Natural Resources:** Use of coconuts as raw material, with efficient utilization of by-products

These impacts are expected to be localized, moderate, and manageable.

---

8. Proposed Mitigation Measures

The following mitigation measures will be implemented:

- Reuse of coconut husks for compost or coco peat
- Water conservation and reuse for cleaning operations
- Proper waste segregation and disposal
- Use of non-polluting cleaning products
- Compliance with EPA requirements, Ministry of Health regulations, and HACCP principles
- Cold-chain logistics to reduce spoilage and waste

Regulatory Compliance

The project will comply with:

- Environmental Protection Agency (EPA) requirements
- Ministry of Health food safety regulations
- HACCP food handling principles

---

9. Maps

a) Location Map

A location map showing Guyana with the Pomeroon region highlighted, indicating the project site at Grant Vreed-En-Hoop.

Appendix 1

10. Process Flow Diagram

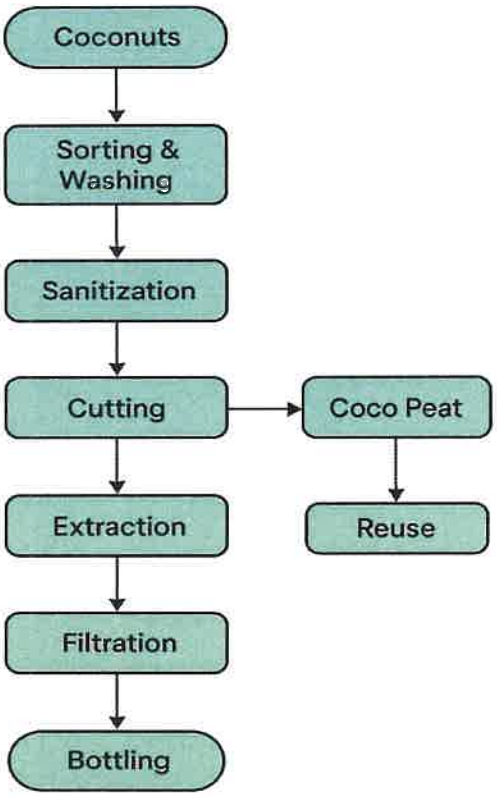
Coconut Water Production Process:

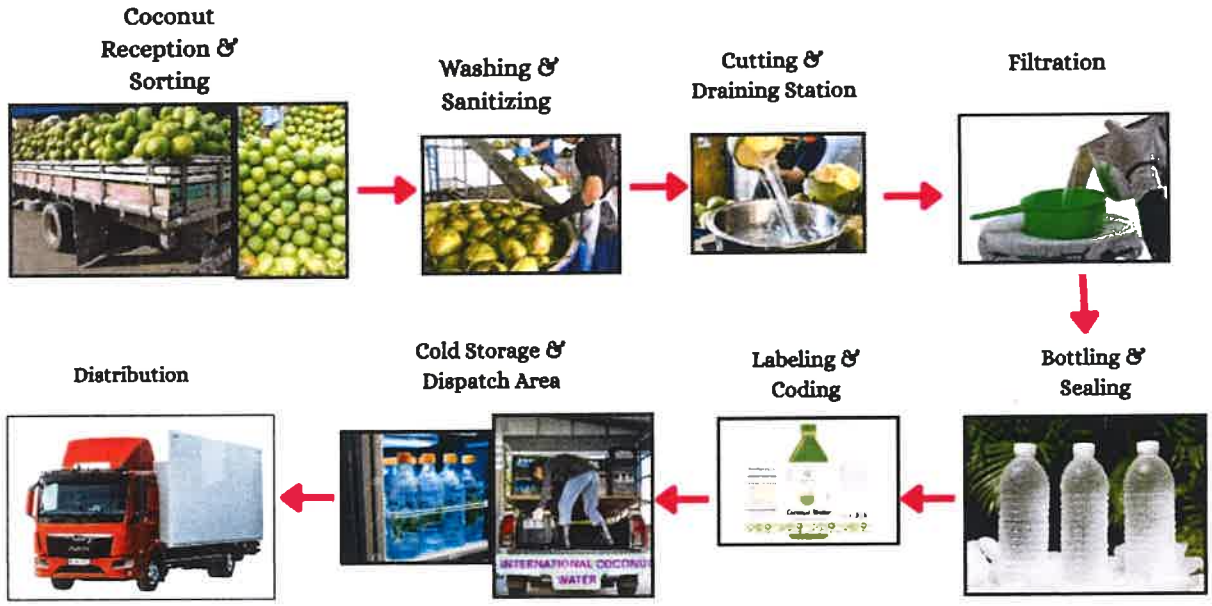
1. Coconut Reception
2. Sorting and Washing
3. Sanitising
4. Cutting and Extraction
5. Filtration
6. Bottling and Sealing
7. Labelling and Batch Coding
8. Cold Storage
9. Refrigerated Distribution

By-product Management:

- Coconut husks collected → compost/coco peat production

Appendix 11 – Process Flow Diagram





---

11. Staffing Table

Position	Number
Manager	1
Factory Supervisors	2
Receiving & Sorting Staff	3
Washing & Sanitising Staff	4
Cutting Staff	6
Filtration Staff	6
Bottling & Sealing Staff	6
Labelling & Coding Staff	4
Packing & Storage Staff	3
Driver	1

Total Estimated Staff: 25 (staff perform different tasks)

12. Site Plan Illustration

Appendix 111 -