



CONTENT FOR CONCEPT DESIGN OF WASTE MANAGEMENT SYSTEMS

1. Introduction

- 1.1 Island description
- 1.2 Scope of work
- 1.3 Local design standards and requirements
- 1.4 Waste facility project lifecycle
- 2. Existing waste management infrastructure and facilities
- 3. Culturally and environmentally Protected areas, zones, and reserves (if applicable)
- 4. Waste Generation (conceptual data)
 - 4.1. Island demographics and population projections
 - 4.2. Design parameters
 - 4.3. Present per capita waste generation rate
 - 4.4. Future waste generation rates
 - 4.5. Design horizons

5. Surveys

- 5.1. Socio-economical
- 5.2. Physical survey
- 5.3. Groundwater assessments
- 6. Stakeholder consultation with attached meeting minutes
- 7. Waste Management and Disposal System
 - 7.1. Overview
 - 7.2. Design approach and system flow diagrams
 - 7.3. Waste collection system
 - 7.4. Waste Storage arrangements
 - 7.5. Waste Management Facility
 - a) Type of treatment
 - 1. Incineration facilities
 - 2. Composting facilities
 - 3. Other mechanical/biological/chemical treatment option
 - b) Waste storage and Storage capacity (segregated)
 - c) Waste processing and treatment capacity
 - d) Concept layout of waste management facility
 - e) Power/water requirements
 - 7.6. Disposal options
 - 7.7. Waste Transfer/Transport mechanism
- 8. Construction material standards







9. Power supply

- 9.1. Existing infrastructure
- 9.2. Backup power source
- 9.3. Power supply upgrade and connection requirements
- 9.4. Power requirement for Waste management facility (conceptual)
- 9.5. Renewable energy integration (recommended)
- 10. Land approvals for Waste Management Facilities
- 11. Risk mitigations and climate change resilience
- 12. Environment Friendly design considerations
- 13. System Expansion options
 - 15.1. Capacity expansion
 - 15.2. Area of Expansion
- 14. Financial and economic analysis for Waste management facility operations (conceptual)
- 15. Expected Environmental impacts due to the project
- 16. Conclusions

Page 2 of 2