1. **BACKGROUND**

1.1 Former studies and other documents related to the present situation of waste management in Aruba.

1.2 The preparation of the Master Plan meets health protection requirements, environmental concerns, and tourism and aesthetic aspects.

2. **OBJECTIVES**

   General and specific objectives in relation with the management of the solid wastes will be defined.

3. **SCOPE**

   The Plan will be based on the fundamental aspects of health and environment. It will also comprise follow-up activities.
4. **BASIC INFORMATION ABOUT ARUBA**

In designing the Plan, basic information will be required on the physical, political and administrative aspects of Aruba such as:

a. Brief description and physical characteristics of the isle; hydrology, geology, climate and topography aspects, as well as the political and administrative territorial organization.

b. Demographic data; population variation can have a significant impact on the solid waste generation. The present population, forecast of population growth, rates of growth, population distribution within the isle, and seasonal variation associated with tourism are important aspects to be considered in the Plan.

5. **DIAGNOSIS OF THE PRESENT SITUATION**

5.1 **Technical aspects**

The Plan should identify:

5.1.1 Qualitative and quantitative characterization of Aruba solid wastes and types of refuse: residential, commercial, institutional, industrial (hazardous), hospital boats and ships, port and airport wastes. It should make a projection of waste generation; per capita production; refuse sampling and testing procedures.

5.1.2 Temporary storage points at the source of generation.

5.1.3 Collection systems: routes, frequency, crew, etc.

5.1.4 Transport system: including information on workshops, maintenance programs, accident records, and routes and highways.

5.1.5 Sites of waste transference (if any) as well as other informal storage points.

5.1.6 Treatment: informal recycling, open air incineration, open dump, etc.

5.1.7 Disposal sites (regular and non-regular).

5.2 **Institutional aspects**

Identification of the present institutional arrangements and organizations dealing with refuse management: Empresa SELIMAR, private firms, etc.
5.3 **Budgetary aspects**

Identification of financial resources and budget planning systems; taxes, tariffs, costs, billing systems, etc.

5.4 **Personnel and administrative aspects**

Identification of local human resources and available technical capacity.

5.5 **Norms and regulatory aspects**

Identification of norms and regulations related to waste management.

5.6 **Legal aspects**

Identification of corresponding laws and ordinances.

5.7 **Public involvement, community participation and communication aspects**

Identification of communication means (civic groups, business, schools, churches, media coverage, etc.) and their role in waste management and health education.

5.8 **Policies and environmental management aspects**

Identification of existing policies on environmental management as well as governmental and non-governmental institutions involved with environmental management.

5.9 **Presentation of the First Progress Report, discussion and evaluation**

The First Progress Report should be presented, including the diagnosis of the present situation for further discussion and evaluation by the Project Coordination.

6. **SOLID WASTE MANAGEMENT MASTER PLAN GUIDELINES**

The SWMMP should address local solid waste management problems. It will take into consideration the economic, financial and population conditions of Aruba. The main goal of the Plan, its application and operation will consider the environmental equilibrium and the most fundamental principles of public health, and life conditions improvement for the inhabitants of Aruba.

The activities to be carried out will examine the requirements already established by the environmental impact assessment study and public health concerns.
7. FEASIBLE ALTERNATIVE STUDIES

Feasible alternatives should be studied and evaluated based on technical, environmental, health and socioeconomic aspects of Aruba specific conditions.

8. PRESENTATION OF THE SECOND PROGRESS REPORT

The second progress report should contain the study of the feasible alternatives and it should be submitted to the technical coordination for discussion and approval.

9. PROPOSED SOLUTION (SELECTED ALTERNATIVE)

The selected alternative, which comprises a proposal for the solution of solid waste management in Aruba, should be presented on the third progress report. It will also include an executive summary and a brochure to enhance community understanding.

The information included in this proposal and the way it is presented will certainly be an indispensable requirement for its adoption.

10. ADOPTED SOLUTION - DEVELOPMENT OF THE PROJECT

For the development of the Project, it is required the technical description of the project, work plans, construction scheme, equipment specifications, cost analysis, timetable of activities, and financial program of capital investment. Personnel requirements and logistics should also be considered.

11. PRESENTATION, DISCUSSION AND ADOPTION OF THE PROJECT PROPOSAL

The Project proposal (proposed alternative) should be presented to the local government officials responsible for refuse management and the respective community for discussion and final approval. The presentation should include (highlight) the basic data and provide a description of the existing and proposed system. Basic recommendations for improvement and an estimated budget for carrying out the mentioned proposal.
12. DEVELOPMENT AND IMPLEMENTATION OF PROJECT PLANS

The development and implementation of project plans will be based on a priority list, including operation plans, monitoring and control, institutional management, information, and community participation.

13. PRESENTATION AND EVALUATION OF THE FINAL REPORT

The final report will be a consolidated edition of the previous reports. It will show the results already obtained.
### ARUBA SOLID WASTE MANAGEMENT MASTER PLAN

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