República de Cabo Verde
Câmara Municipal do Sal
DEPARTMENT OF INFRASTRUCTURE AND CITY PLANNING

PROJECT DESIGN

1. INTRODUCTION

This memorandum discusses the architectural design and construction of the Chã de Matias Pre-School facility. The necessary requirements for the successful implementation of the project, both on a functional and atheistic level, are described in further detail below.

2. AREA DESCRIPTIONS

The described work will be set in a residential area and will utilize an area of 1365m^2. More detailed dimensions are noted in the work's blueprints.

3. FACILITY DESCRIPTIONS

Activity Rooms:
1 – The activity rooms are intended primarily for educational and recreational activities, but may also be used as a resting area.
2 – The approximate minimal area for each room will designate 2m2 per child for a total area of 42.00m2 to hold a maximum of 20 children.
3 – The rooms will be well-lit, airy and have easy access to the outside play area.

Sanitation Facilities:
The sanitation facilities will include one sink for every 5 children, one toilet for every 10 children, and one shower with a manual shower head.

Common Areas:
The described facilities will also feature common areas including a reception area, changing rooms, time-out area, outdoor play area, recreational areas and staff facilities. The staff area will include offices and their own sanitation facilities.

Walls and Flooring:
1 – The floors will be level and with a smooth, slip-resistant surface that is easy to clean and has good insulation properties. The interior floors will be tiled and the exterior will consist of concrete slabs.

2 – The kitchen, pantry and sanitation facility walls will have a minimum height of 2,10m and will contain a surface of washable material (tile). The walls in the classrooms and other children's rooms will be plastered and painted with environmentally friendly, hypoallergenic water paint. .

Furniture:
1 – The furniture used by the children will be sufficient in quantity and have the following characteristics:
a) age-appropriate
b) ergonomically designed to encourage correct posture

c) hygienic
d) child safe (no sharp edges or protruding corners)
e) Non-flammable and should not release toxic gasses

2 – Each room will be designed and equipped according to the developmental stage of the children it will accommodate.

3 – Activity room cabinets holding classroom materials should have a closed parts and an open part within the reach of the children.

Safety and Security:
1 – The facilities will be equipped with an efficient, open-ventilation system. All children's rooms will have two openings on opposite walls in the form of windows and doors with one side looking out to towards the courtyard. All windows and doors will be made of PVC or aluminum with double-paned windows and equipped with netting to keep out flies and mosquitoes.

2 – Light fixtures and switches, electrical outlets and all other electrical appliances Should be covered or out-of-reach from the children.

3 – Safety conditions and habitability of the building must comply with the established regulations and standards.

4 – Safety conditions in relationship to the possible risk of fire should also be taken into account.

4. CONSTRUCTION AND BUILDING SPECIFICS

Foundation Pillars:
The foundation will be built with reinforced, impermeable concrete beams in accordance with Stability Project regulations

Structure:
The structure will consist of a grid of reinforced concrete beams and columns.

Flooring:
Flooring will be laid on a concrete slab. Interior will be finished with smooth ceramic, slip-resistant and easily to clean tiles. Exterior will be paved in concrete with the shape and color depending on the area.

Walls:
Walls will be built of cement blocks with the thickness of 20x20x40cm^3 as indicated in the building designs.
Interior - The interior walls will be plastered and painted with environmentally friendly, hypoallergenic water paint except in designated areas (kitchen, pantry and sanitation facilities) where the wall will be tiled and come to a height of 2,1m.
Exterior - The exterior walls will be plastered, sanded, painted white and covered in decorative stones in the areas designated on the building designs.

Ceilings:
Ceilings will be plaster and painted with environmentally friendly paint. Sloped ceilings with wooden structures will be painted or varnished with a non-toxic, hypoallergenic substance.

Roofing:

Classrooms and multi-purpose common areas will be covered with a wooden structure for the application of ceramic “LUSA” tiles as depicted in the building designs. All other areas will have concrete coverings in accordance to the Stability Project guidelines.

Outside Openings:
Openings will be built of high-quality PCV or aluminum with sound-proofing material and double-paned windows.

Indoor Frames and Doors:
Indoor frames and doors will be made of high quality wood.

Kitchen Furnishings:
Wooden kitchen counters with marble countertops will be built and ready for installation and use of electrical appliances.

Sanitation Facilities:
The sanitation facilities will be furnished with good quality equipment in compliance with building requirements and regulations. The size and characteristics of all equipment should correspond to the age of its users.

Domestic Sewage Disposal System:
All sewage pipes and extensions will run through rigid PVC piping in observance of system regulations.

Storm Sewage Disposal:
Storm water runoff will remain separated from the domestic sewage system and will be directed towards green or exterior areas.

Water Supply and Distribution:
Water piping will be installed in accordance with all current legislation, including running a pipeline through a filter to catch impurities and enhance the safety of the tap water.

Failure to comply with regulations could result in lawful prosecution.

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Department of Infrastructure and City Planning
Municipal Government of Sal