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STABILIZATION AND RECOVERY CABO DELGADO

SCOPE OF WORK

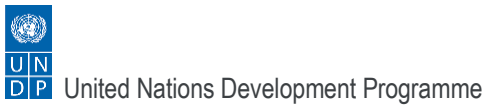
CONSTRUCTION OF 3 CLASSROOMS IN XINAVENI - MACOMIA

PEMBA, 25th APRIL 2022

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1. INTRODUCTION

The present descriptive and justification report refers to the executive project for the construction of classrooms in Cabo Delgado – Macomia District. The construction will be based on the Bill of Quantities made by the UNDP engineer and the project provided by the Ministry of Education. Bidders are advised to visit the site and familiarize themselves with the surroundings and to take the measures they deem necessary, as complaints for lack of knowledge of the site will not be accepted. The measurement method for all items will be based on actual dimensions, apertures are deductible and all calculations per m². The contractor must present all necessary details (factory drawings) and drawing as built and update the entire progress of the works as directed by the UNDP Civil Engineer. All payments must be submitted together with drawings and measurements which are verified and approved by the UNDP engineer.

2 PROJECT DESCRIPTION

The project consists in construction of 3 Classrooms in Xinavani in Macomia-sede main town, an integral part of the Stabilization and Rehabilitation Projects in some district of Cabo Delgado

The choice of this proposed construction was based on its importance according to the needs of the Government and the community in each District. The UNDP team conducted a site visit to explore the site, assess the damage and meet with the relevant authorities at the technical level, and concluded that it was more appropriate to carry out the construction of new classrooms in order to ensure good conditions for students. The main interventions consist of the general cleaning of the entire building, including the removal of all debris on the site and delivery to the dump. It also consists of the construction of each classroom and administration block according to the Technical Specifications and the Bill of Quantities

Good quality materials must be used throughout the work, following the construction standards in force in the regulation of urban buildings.

2.1. WALLS MASONRY AND FLOOR COVERING

Wall Masonry - The walls will be built according to project dimensions in cement and sand mortar blocks of 150 or 200 mm, as indicated in the project. It will be laid with counterfixed joints with cement mortar and sand in the trace 1:4. The block must be laid with joints of 15 mm maximum thickness, and aligned vertically despite the counterfacing.

The concrete laying surfaces will be thoroughly cleaned of dust or dirt and, if necessary, primed and washed with a water jet to make them rough and damp at the beginning of the laying of the brick laying mortar. After the



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execution of the works mentioned above, the opening of gaps and shafts will begin, duly indicated in the architectural and specialty projects.

Floor Covering - The floor covering will be in burnt concrete for all classrooms, and every procedure for its good construction must be considered.

It is necessary to make a laying plan of the material. The cuts should be in the most hidden areas, so that they are not so noticeable.

2.2. WINDOWS AND DOORS

All hardware must be approved by the supervisor or owner. They will be screwed to the corresponding metal and will be lubricated, cleaned, and worked without warping.

All wood doors will be fitted with either chrome or solid brass hinges as specified on the span chart and detail drawings.

All opening windows will be fitted with chrome hinges and will be fitted with 300mm regulators to be chosen from samples provided by the contractor, and latches of the same material.

2.3. PAINTINGS

Paints of the highest quality appropriate for their intended use will be applied. The surfaces to be painted must be previously prepared, and will take the necessary coats so that they are properly covered, the necessary and appropriate primers will be applied insulating primers. The water-based paints to be applied will be plastic and applied to interior and exterior walls. The application of the paint coats, a minimum of three. All coats will be applied in such a way as to avoid streaks, resulting in a homogeneous finish. No coat will be applied until the previous one has dried properly; The minimum interval between coats is 2 hours.

2.4. COVERAGE

Supply and assembly of 0.6mm IBR type sheeting with all resilience fittings, self-tapping nails and truss and connection reinforcement. This activity includes the supply and assembly of a wooden roof structure. The price includes treatment with transparent oil paint to protect the wood.

Supply and installation of Marley-type gutters on the roofs and respective gutters, including fastening clamps and other components for their proper functioning.

The false ceilings in gypsum plasterboard and wooden plates or laths including quadrangular square metallic structure with 600x600mm and suspension elements, treatment of joints, busbar in all the extension of the plates to receive paint, opening of slots to fit lighting spots and ventilation grids.



2.5. ELECTRICITY

The electrical installation is intended to supply lighting loads, and outlets for general use, sockets for specific use as well as ventilation or air conditioning (HVAC) appliances.

The installation to be executed should provide a better distribution of Electricity for the purposes described above. With this in mind, solutions were chosen that were in accordance with the needs and conditions of use of each of the installation's components.

Thus, it was proposed to size the pipes of this installation for the maximum estimated total load of the appliances that may be fed by them in simultaneous use, taking into account the forecast of loads to be possibly used.

The building will be supplied by EDM's (Electricidade de Moçambique) urban Low Voltage network, through a branch line or arrival point mounted underground. The branch or arrival was dimensioned according to the maximum load foreseen for the building.

Each classroom should have a light fixture, switches and outlets, considering air conditioning in the administrative block.

Supply and Installation of a Small 3KVA Offgrid Photovoltaic System, Complete including all accessories for its proper functioning

3. METHOD OF ACHIEVEMENT

3.1. CONSTRUCTION MANAGEMENT

A construction company acquired under the supervision of UNDP engineers will carry out the rehabilitation work on the premises. The Provincial Department of Health (DPS) to ensure that the rehabilitation project is compatible with the existing one and is properly interlinked will provide additional engineering support.

3.2. CONSTRUCTION SCHEDULE

The rehabilitation schedule is fully integrated with the general resource loaded for UNPD projects. The facilities will be rehabilitated on a dynamic schedule with project schedule goals and designed to enable the project's mission performance objectives.

3.3. QUALITY WARRANTY

The project will be conducted in accordance with the UNDP Engineer Quality Assurance Program (QAP) which applies to all work carried out at UNDP. The QAP will consist of the following criteria: Program, Design, Work Processes, Inspection, Evaluation, Quality Improvement, Documents and Records.



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3.4. COMMISSIONING

An important element of ultimate success will be the proper commissioning of the installation and instruments. Installation and instruments will require peak performance to fulfill the project's mission. The contractor's personnel will be responsible for the commissioning works.

4. FINAL DISPOSITIONS

Everything that is not mentioned in these specifications, it was recommended to follow the regulated techniques for the construction of such projects, and the procedures according to the instructions of the UNDP engineer.

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