United Nations Development Programme
MozambiquePemba

STABILIZATION AND RECOVERY CABO DELGADO

SCOPE OF WORK

REHABILITATION OF ADMINISTRATIVE BUILDINGS IN QUISSANGA:

LOT 1:

- **DISTRICT HEALTH, WOMEN AND SOCIAL ACTION SERVICE (SDMAS)**

LOT 2:

- **DISTRICT PLANNING AND INFRASTRUCTURE SERVICE (SDPI)**

LOT 3:

- **QUISSANGA MEETING ROOM**

PEMBA, 30th JUNE 2022

CONTENT

1 INTRODUCTION

This descriptive and justifying report refers to the executive project for the rehabilitation of 3 buildings in the district of Quissanga under the Recovery Mechanism after the attacks in the districts of Cabo Dlegado. This project is funded by UNDP and Partners.

The rehabilitation will be based on calculations made by UNDP engineers as a result of a recommendation from the Quissanga District Planning and Infrastructure Service.

2 STRUCTURE

The buildings are located in Quissanga Sede. Framed in the general plan of the site, the buildings that will be rebuilt are:

Lot 1:

a) **SDMAS –** Repair cracks, plastering, applying paint in interior & exterior walls, changing doors and windows, repairing the floor (including installing tiles), repairing the roof and ceiling, electricity, soil cleaning and all works for its proper functioning.

Lot 2:

a) **SDPI –** Repair cracks, plastering, applying paint in interior & exterior walls, changing doors and windows, repairing the floor (including installing tiles), repairing the roof and ceiling, electricity, water system, soil cleaning and all works for its proper functioning.

Lot 3:

a) **MEETING ROOM -** Repair cracks, plastering, applying paint in interior & exterior walls, change of doors and windows, repairing of the floor (including installing tiles),, repair of the roof and the false ceiling, electricity, cleaning of the ground and all works for its proper functioning.

3 PROJECT DESCRIPTION

The contractor must provide all equipment and materials listed in the bill of quantities and specifications according to the specifications provided to achieve the scope of the work completely and in accordance with the instructions of the Supervisory engineer.

All facilities necessary for the proper development of all phases of the project will be the responsibility of the contractor. Unless explicitly requested, any facilities will be deemed to be included and/or surcharges in the contractor's price. No material will be provided by UNDP and no site installation will be provided by UNDP.

3.1 GENERAL RESPONSIBILITIES / REQUIREMENTS

3.1.1 REPORTS

One of UNDP's management tools is through comprehensive progress reports supported by photographs, videos and similar materials from its implementation partners. The same also applies to illustrate the impacts of the project.

3.1.2 REPORT CONTENT

During implementation, the contractor shall provide UNDP with daily, weekly and monthly progress reports, including but not limited to:

- Meetings held with counterparties, contractors... and so on.
- Progress reports, delays... and so on.
- Staff employed by the contractor, subcontractors, counterparties.
- Technical problems.

However, UNDP will provide the contractor with the format of the progress report.

3.1.3 SAFETY AT WORK

It is the contractor's responsibility to protect the Works from vandalism and interference during construction at all times until the official delivery of the works.

3.2 GENERAL WORKS

3.2.1 WALLS

Damaged internal and external walls should be cleaned of dust, debris, the plastering layer should be removed (if necessary) by peeling the plaster with the chisel and giving light knocks with the hammer. Performing this service from the bottom up will prevent the coating from falling on the technician during removal. When removing debris, it should be deposited in a dumpster.

Before applying the plaster to the walls, the contractor should wet the walls to ensure adherence with the plaster. After plastering, a smoothed acrylic paste ready to receive paint should be applied to the walls.

The walls must have the following characteristics:

- Does not reflect the rays of light, causing obfuscation (users).

- Waterproof

- Finishing with acrylic paste prepared to receive ink

- Easy to clean

- Water resistance

- Easy maintenance

- Sounding

- No harmful pollutants

- Water resistance

- Fireproof

- Security

3.2.2 GROUND FLOOR

The damaged floor will be carried out in the well-regulated landfill with excavation land and/or loan chambers, watered and well compacted in successive layers of 20 cm. A rocking will be made in medium stone, with thickness of 10 cm, on which will be concreted on concrete Slab B25 simple with line of 1: 2: 3 (cement, sand, stone) with thickness of 10 cm.

A waterproofing canvas with a thickness of 250 microns will be placed on the floor, before concreting, to prevent and/or reduce the humidification of walls and floors by capillarity.

The ground floor will be in simple concrete, poured with a thickness of 10 cm on the level and compacted rocking of 10 cm with median stone of 2". The concrete will be applied on continuous surfaces that will not exceed 100 m^2 , separated by construction joints finished with mortar 1:5, 7 days after initial concreting.

The floor will be finished with simple and smoothed counterfloor according to the recommendations and there are floors that will be lined with ceramic tiles 600x600mm POL, including skirting 100x600mm and thickness of 20mm.

3.2.3 CARPENTRY - WINDOWS AND DOORS

All doors and windows will be made of solid earth wood (chafuta or umbila), well dried and free of knots and whiteness. All finished frames and joinery must have very smooth surfaces, with slightly rounded edges, completely free of machine marks or hand tools. The rounding of the edges will be of the order of 2 mm radius according to the indication of inspection for each case.

All joinery will be protected after being installed to prevent damage to edges and surfaces, cement or paint stains, etc.

The Joinery parts must be prepared immediately after ordering. They will be stored in a dry place to be approved by the Inspection. In the event that any joints are opened by warping or shrinkage before the end of the work, these parts must be removed and replaced at the contractor's expense. Unless otherwise indicated, all carpentry shall be built according to best practices, armed with sleepers and joints, dowels and with glued joints, bolted, etc., according to the needs of each case. The longest possible lengths for all elements will be used

throughout the work. When necessary, any joint will be made of half wood by overlay and pegs and the tops always in the best possible combination.

These will be executed according to a detailed drawing, most of which will be handled as described.

Steel doors will be used for the external doors and steel grilles will be used for the windows.

3.2.4 HARDWARE

All accessories to be used in the work will be of the types, dimensions, finishes described in the drawings of technical specifications. All parts will be assembled, with suitable screws, either in size, material or head shape. All parts must be perfectly cleaned and lubricated for the delivery of the work.

3.2.5 PAINTINGS

All materials used in the painting will be of the best quality and must be approved by UNDP engineers. The coating of carpentry parts, when required by the project, will be with cellulosic varnishes. The contractor must indicate in a timely manner which brands and types of paints and other finishing materials for approval by UNDP engineers, complying, however, with the guidelines defined by the inspection.

All materials to be used in painting work must be brought to work in sealed cans or drums and no tampering will be permitted. All painting work will be carried out according to the color schemes defined by the Inspection or the developer.

In all cases the preparation of surfaces and the application of paints, varnishes, oils, etc., will be carried out strictly in accordance with the manufacturer's instructions for each type of surface and for each type of finish specified. All surfaces to be painted must be perfectly dry and clean, without residues of oils or greases, dust or sand and prepared for painting.

The plastered surfaces will be well brushed, and all cracks will be redone and dented. The wooden surfaces will be perfectly finished, sanded and sanded until smooth faces are obtained before painting or varnishing; between each hand, a fine sandpaper should also be applied.

In the rehabilitated compartments, the ceiling will be painted with two coats of washable acrylic latex, with Satin finish, suitable for use in health environments.

3.2.6 ROOF STRUCTURE

All wood to be used in the roof structure should be of good quality, well dried, without knots, warp or other defects and be sawn according to the good rules of the technique, well-mated, in the necessary lengths and in the dimensions that allow the finishing according to the specifications of the details. They can be earthwood or pine wood.

All wood used in the roof structure must be previously approved by the inspection, properly treated against the attack of insects and fungi, especially termites, through approved methods, such as pressure treatment or other similar method, of proven quality. They will always be protected with organic solvent products, having as preservative or active ingredient Chlorinated Mothballs, especially indicated as preventive and curative against Rot Fungi and Xylophagous Insects: Carunchos and Termites.

In all cases, the assembly of these trusses will be made on the basis of the details shown in the drawings. All trusses must be supported by reinforced concrete beams according to the designed parts. The connection of the wooden parts will be made through connecting plates as detailed in the drawings. Trusses must be approved by the UNDP engineer prior to placement.

3.2.7 COVER

The coating material will be the IBR safintra type cover plate, in galvanized iron of 0.6mm thickness. The lateral and frontal projections will be those expressed in the drawings. The plates will be handled, transported and stored in such a way that they are not damaged by shocks, perforations or arrows caused by permanent deformations. The plates will preferably be stored in covered areas. When protected from water, the plates will be placed in piles not too high on wooden blocks, in sufficient numbers for the load to be transmitted in the most uniform way possible. The handling of plates with a length greater than 3.0 m will be carried out by more than 2 men to avoid deformations or even breakage.

The settlement will begin on the opposite side of the prevailing winds and rains and from the bottom up. The side and longitudinal overlaps of the plates and finishing parts shall comply with the indications provided for this purpose by the manufacturer.

The plates are fixed to the structure by means of threaded nails (screw type) and sealing washer. The number of anchorages will be 3 per wedge on each plate and 1 in each wave on the eaves of the eaves and ridge. The fastening of the fasteners shall be firm without, however, deforming any part of the fasteners.
The cuts and perforations to be carried out on the plates will be carried out with care and will be carried out by appropriate mechanical means. These operations will never be carried out in areas already covered.

The ridges, slope, etc., will be executed in molded parts and supplied by the same manufacturer of the plates and their specifications will correspond to those of the plates they finish. All plates, trims and accessories will be conveniently placed in order to observe a convenient seal of the parts and their assembly.

The roof of these buildings must be built with a slope between 30 and 45 degrees. the roof structure should be reinforced diagonally to withstand high winds. For the connection between the beams of the roof structure, a 6 mm rod can be used.

3.2.8 HYDRAULICS

For the operation of this building it is essential to have a secure water supply of good quality. The water system must be rehabilitated with the use of the Plastex water tank and installation of an electric pump. A general review of the existing tank, piping and connection system shall be carried out, with verification and replacement, if necessary, in order to ensure its proper functioning.
In the rooms to be rehabilitated, hydraulic installation work related to hand sinks, safety shower and washbasin. All the pipe must be embedded in the walls.
The sewage network will be executed in plastic pipes materialized in uPVC - polychloride of rigid vinyl or equivalent, class 6 and 10 for internal and external plumbing respectively. All pipe connections and bends must be executed with appropriate fittings in accordance with

the supplier's specifications. The white waters will be directed to the inspection boxes according to the projected parts and will be channeled to the existing system. The connection extensions of the sanitary appliances will be connected by means of siphons tubes.

3.2.9 ELECTRICITY

The building's electricity is provided by EDM, however there are frequent supply cuts. A PHOTOVOLTAIC SOLAR POWER SYSTEM will be provided that will act as a back up of the buildings, operated in an automatic system. The electrical frame of the buildings must be changed.

The electrical installations of the rehabilitated rooms must be connected to new circuit breakers in a new table to be installed (place to choose). Circuit breakers and differential wrosmust be installed in electrical circuits to protect circuits against electrical overload and protection of personnel against electric shock, and must be sized according to the equipment specifications provided by the developer.

3.2.10 EXTERIOR PROVISIONS

3.2.10.1 TREES AND SHRUBS

All trees and shrubs on the ground and outside the foundation boundary will be preserved and protected from any damage they may suffer during construction. The Inspection will determine which trees and shrubs should be felled outside these boundaries. The resulting woody material shall be removed at the contractor's expense, after agreement with the local authorities.

3.2.10.2 LEVELING

The land will be leveled according to the project's dimensions, both in paved and unpaved areas. The contractor will be very careful to obtain the final dimensions on the surface of the land ready for planting.

3.2.10.3 REMOVAL AND SOIL CONSERVATION

The organic soil will be removed from the surface of any area and level, stacked in a convenient location and spread again after the completion of the overall leveling of the base.

3.2.10.4 FINAL PREPARATION OF THE GROUND

When preparing the leveling of the ground, the utmost care will be taken to ensure that there is no sinking or scattering of debris from the work, organic or inorganic, and that the cover and protection of the pipes is complete before closing the ditches.

3.2.11 FINAL PROVISIONS

In all that is not mentioned in this specification, it is recommended that the regulated techniques, the process of their construction, as well as the use of the best materials and the general and normative procedures in the Republic of Mozambique be followed. The contractor must hire local labor.

3.2.12 ATTACHMENTS

- Final BoQ ;
- Drawing and details;
- Specifications;
- Images.

IMAGES

DISTRICT HEALTH, WOMEN AND SOCIAL ACTION SERVICE	
 1. FRONT FACE	 2. POSTERIOR FACE
 3. SUSPENDED CEILING	 4. CORRIDOR
 5. COVERAGE	 6 . FRAMES

DISTRICT PLANNING AND INFRASTRUCTURE SERVICE	
 1. FRONT FACE	 2. POSTERIOR FACE
 3. CORRIDOR	 4 . BATHROOM
 RECEPTION	 6. COVER STRUCTURE

SECTION ROOM OFQUISSANGA DISTRICT GOVERNMENT	
 1. FRONT FACE	 2. FACE POSTERIOR
 3. INTERNAL COMPARTMENT	 4. LEFT SIDE
 5. RIGHT SIDE	 6. MAIN ENTRANCE