



SPECIFICATIONS

Waterproof Works on roofs

United Nations Building N° 1

CONTENTS

- 1. Introduction**
- 2. Regulatory Framework Summary**
- 3. Quotation**
- 4. Subject**
- 5. Brief description of works**

INTRODUCTION

UNDP Moldova, as well as 2 other UN Agencies, housed in the same UN building, are in need of repairs to roofs of buildings 1, 2 and 3, in order to overcome the various problems of infiltration of rainwater.

It was established that the sum of the defects is at the origin of many infiltration of rainwater into the offices of the top floor of Building 1.

Works will be performed by qualified workers in all specified technical areas.

The materials that are used must be of high quality. The implementation is done following the rules of art.

REGULATORY BACKGROUND

The entrepreneur must have appreciated the nature and conditions of the premises, site access, consistency of works as well as correct measurements before responding to the tender specifications.

The contractor will comply with established rules and practices within the occupational structure of the building 1, 2 and 3, in particular any provisions established by the Resident Representative and/or his/her Deputy.

Both the contractor and UN representatives will be attentive to communicate in due time the useful occupation for a better coordination and indicate any identification of problems.

Companies must take into consideration all necessary regulatory compliances of the works, in particular any requirement which may be imposed by the present specifications and by regulations of the UN representatives on site.

The company, referring to their qualifications, should be able to adapt her services to any administrative or technical constraint.

QUOTATIONS

The studies and articles are handled for a fixed price and include the entire work, supply and constraints necessary for a complete and perfect completion, of a perfect performance, excellent finishing and perfect operational quality.

The drawings should be verified and completed by the company which will undertake the achievement of all the works as mentioned in his package price. If the contractor, during the implementation of his quotation, finds an error or omission, it will have the option to change this amount and quantities. The total price obtained by multiplying the quantity and unit price offered will be taken into consideration only for the establishment of that specific part of the entirety of work.

No amount of works or price estimation can be revised during the works in progress.

Only changes to the project duly validated by the contractor and the head of works may lead to a revision of the amounts on which will be applied the unit prices of the market.

Any change of the original market will be a clear agreement in terms of benefits and costs before any action. On the contrary, only the core market will be implemented.

SUBJECT

1. Stack of chimney

Waterproofing of stacks of chimneys, of their abergement and of the flashing parts.

2. The valleys

Verification of the zinc gutter (junction between two bridges of the roof) and re-alignment of tiles around the valleys.

3. Ridge and hip tiles

Replacement of the existing ridge and hip tiles with new tiles.

4. Gutters

Checking of the gutters.

5. Antennas

Waterproofing of the antenna masts.

6. Skylight ventilations (roof)

Repairs to windows' attic ventilation in order to prevent infiltration of rainwater.

BRIEF DESCRIPTION OF WORKS

The works include:

1. Chimney stacks

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The works involve removing of the old plates of zinc and rebuild their seals in order to eliminate any possibility of infiltration of rainwater, snow or slush powder, even in strong windy conditions.

A. Preparation of the site taking into account the security measures required for this type of roof work.

B. Removal of all elements that are not consistent with a waterproof roof around the 3 chimneys

C. Redoing of connections, sealing the periphery of the three stacks and their junction with the roof tiles. Implementation of a skin-tight sheet of zinc on the periphery of the stacks (abergement) with a crown ascending part (flashing).

Photos 1, 2 and 3

In general

All work and materials required for the perfect completion, whether or not mentioned in the description are of the responsibility of the successful bidder, they should be included in the overall financial offer.

All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

2. The ordinary gutter

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

Verification of valleys (zinc junction of the two sides of the roof, forming an inside corner). If necessary, apply the appropriate method for their correction. Realign the tiles and ridge tiles on the zinc descents (gutter), so as to cover the descents adequately and consistently. The tiles must be cleanly cut in order to avoid any infiltration of rainwater, even torrential, powdery or melting snow.

- A. Preparation of the site taking into account the security measures required for these types of roof works.**
- B. Remove the tiles making the junction between the gutter and zinc in order to release them.**
- C. Check zinc descents (gutter), as well as their recovery and back edges (aerators) located at the ends of runs under tiles. If necessary, repair in an appropriate way.**
- D. Repositioning and aligning tiles along zinc descents (gutter). The covering of tiles with zinc must be at least 15 cm or more, depending on the possibilities and this over the entire length of zinc. Otherwise, correct junctions zinc descents with gutters and ridges.**

Photos: 4, 5 and 6

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The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

3. Ridge tiles and tiles arêtières (hip tiles)

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The work involves removing all the ridge tiles and replacement by new ones, as well as renewal of the tiles covering the hips.

- A. Preparation of the site taking into account the security measures required for this type of roof works.**
- B. Remove all the old ridge tiles and arêtières (hip tiles) and their cement plasters. Proceed to the evacuation from site.**
- C. Replace any damaged roof tiles at the first row of each side of the roof.**
- D. Check the ridge batten, if necessary carry out repairs.**
- E. The new ridge tiles must be of correct size in order to effectively cover both sides of the roof. They should be wet before use and must be sealed together with a mortar containing additives of adhesion (SIKALATEX). The spaces between the roof tiles should be filled with caulking mortar containing adhesive additives to prevent the infiltration of rainwater in the event of high wind.**

Photos: 7, 8 and 9.

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All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

4. Gutters, flashing and banks

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The work involves checking the gutters, and flashing the banks of the roof.

- A. Preparation of the site taking into account the security measures required for this type of roof work.**
- B. Remove existing flashing, making the sealing of the roof of Building 1 at the front wall of Building 2.**
- C. Place new zinc protection (flashing) along the junction between the roof of building 1 and the front wall of Building 2. The flashing must be installed in a professional way and be embedded in the upper part in the wall of Building 1.**
- D. Check gutters, flashings and banks in general, and proceed to their rectification if necessary.**

Photos: 10, 11 and 12

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All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

5. Antennas

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The work includes redoing the insulation to prevent infiltration of rain water around the metal antenna mast all around their junction with the roof.

- A. Preparation of the site taking into account the security measures required for this type of roof work.**
- B. Removing all elements not attached or degraded, making the tour of the basis of the masts.**
- C. Rearrange correctly the tiles around the two antenna masts.**
- D. Make sealing connections at the periphery of antenna masts and their junction with the roof tiles using flexible materials like army asphalt or any other flexible material and resilient over time.**

Photos: 13, 14 and 15

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All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

6. Skylights ventilation

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The work involves re-sealing of the front part, in particular the part which is visible from the skylight windows in the roof.

- A. Preparation of the site taking into account the security measures required for this type of roof work.**
- B. Removal of all defective wooden fascia and flashings around edges of two dormer roof ventilations.**
- C. Repositioning of the tiles around the edges and flashings and replacement of any defective tiles.**
- D. Insert new sheets of zinc around skylights, covering the tiles with at least 10 cm.**
- E. Place zinc flashings all around the skylights.**

Photos: 16, 17 and 18

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All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.

7. Roof Tiles

The works must be performed in a professional way, taking into account all the necessary security measures to roof work.

The work consists of checking all the roof tiles, rearrange them and, if necessary, replace defective tiles.

- A. Prepare the site, taking into consideration all security measures required for this type of roof works.**
- B. Check and replace the defective tiles. Check and reorganize the party in disarray or incorrectly overlapping. Plan to replace about 20 m2 of tiles.**

Photos: 19, 20 and 21

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All works necessary for the full completion, as well as the manufacture, assembly, transportation at work, lifting equipment (scaffoldings, winches, cradles), handling, the proper storage on site, as well as the temporary protection needed for the execution of the works will be taken into consideration and shall be at the burden of the company.

The company will be responsible, if needed, for all necessary approvals from

competent authorities for any installation of scaffoldings, winches, cradles, trucks and so on.