VOLUME 4.2

FINANCIAL OFFER TEMPLATES

**LUMP SUM CONTRACTS**

**Content**

**4.2.1 — Introduction**

**4.2.2 — Summary**

**4.2.3 — Breakdown of the lump-sum price**

**VOLUME 4.2.1 — INTRODUCTION**

**1. General**

1.1 The breakdown of the lump-sum price (Volume 4.2.3) is the itemised list of prices showing the build-up of the price in a lump-sum contract. This breakdown of the lump-sum price does not derogate in any way to the clause stating that, in a lump-sum contract, the total contract price remains fixed irrespective of the quantity of work actually carried out.

The amounts due will be calculated:

by the tranches specified in Article 49(1)(a) of the special conditions.

1.2 The detailed breakdown of prices (Volume 4.2.5) is the list which contains the basic costs, net costs and mark-ups, from which each price on the breakdown of the lump-sum price and on the daywork schedule results. The detailed breakdown of prices does not derogate in any way to the clause according to which, in a lump-sum contract, the total contract price remains fixed irrespective of the quantities of work actually carried out.

**2. Specific to Volumes 4.2.2, 4.2.3 and 4.2.4**

2.1 The item description given in the breakdown of the lump-sum price in no way limits the contractor’s obligations under the contract to provide all the works described elsewhere.

2.2 The prices of the breakdown of the lump-sum price include all incidental and contingent expenses and all risks necessary to construct, complete and maintain all works in accordance with the contract. Unless separate items are provided in the breakdown of the lump-sum price, prices include all costs involved in the various items of the breakdown.

2.3 The lump–sum price and the prices of the breakdown of the lump-sum price and of the daywork schedule are all-inclusive and include any non-exonerated tax or fiscal duty.

**VOLUME 4.2.2 — SUMMARY**

|  |  |
| --- | --- |
| **Description** | **Amount**  **EUR** |
| LOT 1 Total of lump-sum price |  |
| **TOTAL PRICE** |  |

|  |  |
| --- | --- |
| **Description** | **Amount**  **EUR** |
| LOT 2 Total of lump-sum price |  |
| **TOTAL PRICE** |  |

**VOLUME 4.2.3 — BREAKDOWN OF THE LUMP-SUM PRICE**

**LOT 1 - Conservation, restoration and reconstruction of property No22**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **item** | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
|  | **Architecture** |  |  |  |  |
|  | All preparatory positions that follow and include demolition, breaking, cutting and dismantling should include: protection of people and material goods, local disposal of rubble in a temporary container adequately positioned, permanent disposal by loading, transport and unloading of rubble to an approved landfill by the local authorities, protection of the existing structure, temporary support, taking all security measures. To be made in everything according to the technical drawings and in accordance with the developer, designer and supervision. Before the start of each group of works, the project documentation should be studied integrally and full coordination of the different performance groups should be ensured, which should overlap or consequently perform in the same or related positions. To make a dynamic plan for the distribution of activities in stages and phases, in a way that will enable the smooth ongoing operation of the facility, while respecting the needs of all separate functional units. |  |  |  |  |
|  | All dismantling works should be completed in such a way that the dismantled works can be reused. It should be taken into account that the given quantities of the newly foreseen positions are net incorporated, which means that an additional reserve quantity for destruction should be foreseen, which would be calculated in the offered price for the net quantity. All pre-performance measures to be checked on site. At all times, the safety of workers and other authorized visitors must be ensured at the highest possible level. During the execution of separate phases, the integrity of the existing structure and the non-damage of the previously performed works should be taken into account by using protective coatings and any other available measures, in order that after the completion of the reconstruction and during commissioning, the entire facility be brought to optimal condition. All materials to be approved by the developer and the supervising engineer. The investor reserves the right, in cooperation and agreement with the supervisory authority - conservation engineer and with the contractor, to adapt certain positions on site to the current situation found on site. The exact quantities for the performance of the works are determined on the spot by the supervising engineer-conservator, in cooperation with the contractor. |  |  |  |  |
| **1.** | **PRIOR WORKS** |  |  |  |  |
| 1.1. | Procurement, transportation and installation of metal scaffolding for the performance of assembly-disassembly works on the roof and facade works. (The three-sided length is 18m, and the height is 6m). | м2 |  | 108,00 |  |
| 1.2. | Procurement and placement of protective PVC, or jute fabric, vertically on the mounted scaffolding. | м2 |  | 108,00 |  |
|  | **TOTAL:1** |  |  |  |  |
| **2.** | **PREPARATORY WORK** |  |  |  |  |
| . | Note: during the performance of the dismantling works and the covering works of the house, it is mandatory to provide adequate protection of the walls and the interior space from atmospheric precipitation. |  |  |  |  |
| 2.1. | Dismantling of the existing roof covering made of ceramide and salonite plates from the added part, with a total area of ​​70m2 at the base, sloping area of ​​75.60m2 and transportation of the unusable material to the nearest landfill. | м2 |  | 75,60 |  |
| 2.2. | Removal of wooden roofing, transport of unusable material to the nearest landfill. | м2 |  | 65,60 |  |
| 2.3. | Removal/dismantling of the existing wooden roof construction from the four-gable roof and from the one-gable roof, transport of the unusable material to the nearest landfill. | м2 |  | 70,00 |  |
| 2.4. | Demolition of the remains of the retaining wall on the floor on the south side near the built-up part (next to the neighbor) and demolition of the retaining wall on the west side bordering the neighbor, on the ground floor and first floor and transporting the material to the nearest landfill. During the demolition, take all measures for protection during work and perform the necessary support. | м2 |  | 32,00 |  |
| 2.5. | Opening of the walled up two original window openings in the bondruk construction near room no. 3 - guest room on the floor (on the east and south sides) and transport of unusable material to the nearest landfill. | м3 |  | 2,50 |  |
| 2.6. | Leveling / mechanical removal of the cement interventions from the east and north facades in the ground parties on the outside, cleaning the joints throughout the stone masonry from plaster residues. | м2 |  | 47,50 |  |
| 2.7. | Dismantling the damaged plaster and the wooden substructure from the attic cornice - the sims. | м2 |  | 31,50 |  |
| 2.8. | Removal of the damaged plaster in the ground floor rooms with an area of ​​76.6m2 and on the first floor with an area of ​​74.4m2 and removal of the rubble to a landfill. | м2 |  | 151,00 |  |
| 2.9. | Removal of additional cement interventions in the porch - at the stone stairs and temporary removal of the concrete sink on the west wall (if its re-installation is possible). | pieces |  | 2,00 |  |
| 2.10. | Dismantling of all existing wooden windows on the first floor and on the ground floor, with removal of the debris to a landfill. It is necessary to preserve the authentic window on the floor on the north side, in order to make the new windows according to its profile. | пар. |  | 13,00 |  |
| 2.11. | Dismantling of existing wings from interior doors in the house (in order not to damage them during the work) and their storage until conservation. | pieces |  | 5 |  |
|  | **TOTAL: 2.** | | | |  |
| **3** | **EARTHWORKS** |  |  |  |  |
| 3.1. | Excavation of soil from the basement rooms and in the porch with a depth of 50 cm, with loading and transportation of the soil up to 10 km. | м3 |  | 14,00 |  |
| 3.2. | Excavation of soil from basement rooms for the formation of foundations under jackets and reinforced concrete canvas, with loading and transportation of the soil up to 10 km. | м3 |  | 23,00 |  |
| 3.3. | Procurement of material, transport and compaction of gravel with a height of 20 cm as a base (for the slab of lean concrete) in the basement rooms and the porch with an area of ​​26 m2. Compacted gravel is also placed under the foundations with p=4.83 m2, with a height of 20 cm. | м3 |  | 6,20 |  |
|  | **TOTAL: 3** |  |  |  |  |
| **4.** | **CONCRETE WORKS** |  |  |  |  |
|  | Note: During the performance of the concrete works, the directions for the preparation of the positions before concreting given in the textual part and the graphic part of the construction project must be followed. |  |  |  |  |
| 4.1. | Procurement, transportation of material, (plating if necessary) and concreting of foundations under a.b. jackets and under a.b. canvas with MB30. (Under the foundations, lean concrete with a height of 5 cm is previously placed) | м3 |  | 2,50 |  |
| 4.2. | Procurement, transportation of material, plating and concreting of a.b. canvas and a.b. jackets with MB 30 according to the construction project. (For this position, it is necessary to remove plaster or brick in the contact zones, clean the joints and remove individual stones in a checkerboard arrangement in order to create a connection between the jacket and the stone wall, place reinforcement in the plugs, and after reinforcement and concreting, shuffle the elements. | м3 |  | 9,30 |  |
| 4.3. | Procurement, transportation of material, plating and concreting of a.b. serclage beams MB30 along the walls in the building above the basement and ground floor. (Previously, it is necessary to rely on the existing inter-floor construction, to divide the walls and to form grooves where the serclage a.b. beams should penetrate, and after concreting, spalling). | м3 |  | 5,50 |  |
| 4.4. | Procurement, transportation of material and concreting of a slab of lean concrete in basement rooms and the porch with a thickness of 5 cm (as a waterproofing base). 5 cm thin concrete is placed under the foundations of a.b. canvas and a.b. jackets.. | м2 |  | 33,00 |  |
| 4.5. | Procurement, transportation of material and concreting of a.b. slab with concrete MB30 in basement rooms and the porch with a thickness of 10 cm, structurally reinforced with Q188. During the production of the plate, add an additive for waterproofing. | м2 |  | 29,00 |  |
| 4.6. | Installation of the existing concrete sink in the porch or if it is impossible to dismantle and install it, making a new concrete sink in the porch with identical appearance and dimensions as the existing one: length 95cm, width 73cm and height 90cm, with a depth of 16cm. | pieces |  | 1,00 |  |
|  | **TOTAL 4.** |  |  |  |  |
| **5** | **REINFORCEMENT WORKS** |  |  |  |  |
| 5.1. | Procurement, transportation and installation of rib reinforcement RA 400/500 - 2 according to static calculation. | kg |  | 1.469,00 |  |
| 5.2. | Procurement, transport and installation of mesh reinforcement MAG 500/560 Q 188 according to static calculation. | kg |  | 35,00 |  |
|  | **TOTAL 5.** |  |  |  |  |
| **6** | **MASONRY AND TILE WORKS** |  |  |  |  |
|  | Note: During the execution of the masonry works, the directions for the preparation of the positions given in the textual part and the graphic part of the construction project must be observed and performed according to the description of the solution for rehabilitation and strengthening. |  |  |  |  |
| 6.1. | Procurement of material, walling and sealing of destabilized and waste stones on the ground floor of the southern facade. | м2 |  | 8,50 |  |
| 6.2. | Masonry shaping of the opening of the double-winged window on the south facade on the high ground floor in the porch by lowering its parapet height by about 20 cm, in order to pass a.b. a cerclage beam above it. The window has dimensions of 75/90 cm. | pieces |  | 1,00 |  |
| 6.3. | Cleaning of the damaged plaster from the joints in the stone masonry of the south wall, walling of the loose stones, sealing and re-grouting with hydraulic mortar. | м2 |  | 20,20 |  |
| 6.4. | Supply of material, transport and grouting of stone masonry (with full joint) with hydraulic mortar on the east and north facades, including stone walls in the basement. | м2 |  | 81,70 |  |
| 6.5. | Procurement of material, transport and construction of a 25 cm thick solid brick wall on the north wall in the porch at the front door and in the basement rooms where it has already been walled up by the previous owners and some correction is needed. | м2 |  | 7,50 |  |
| 6.6. | Procurement of material, transportation and construction of a solid brick wall with a thickness of 12.5 cm on the south wall of the floor and next to the neighbor. | м2 |  | 6,90 |  |
| 6.7. | Renovation of the masonry of the existing chimney, plastering with hydraulic mortar and installation of cladding around the chimney made of plasticized brown sheet. | pieces |  | 1,00 |  |
| 6.8. | Procurement of material, transportation and execution of a 5cm thick cement screed, reinforced with a mesh, placed on the floor slab in the basement and the porch and in the toilet with a thickness of 4cm. | м2 |  | 31,00 |  |
| 6.9. | Procurement of material, transport and gluing of granite tiles in the toilet on the floor and plinth with an area of ​​2.2m2 and wall tiles with an area of ​​4.8m2 in the area near the sink and toilet bowl. The floor tiles should have a similar structure and texture to the floorboards in the ground floor rooms, brown color, elongated shape and with approximate dimensions of 15x60 cm. The wall tiles should be white with dimensions of 60x120 or 30x120cm, placed only on the walls near the toilet and the sink up to a height of 120cm, glued with glue type - tile on tile. | м2 |  | 7,00 |  |
|  | **TOTAL: 6.** |  |  |  |  |
| **7** | **FACADE WORKS, PLASTERING and PAINTING** |  |  |  |  |
| 7.1. | Revision of the facade, procurement of repair material and repair of the existing bondruk structure on the floor with the gradual replacement of all damaged and deformed wooden elements (pillars, beams, diagonal stiffeners, horizontal slats) from the bondruk with new ones. | м2 |  | 74,40 |  |
| 7.2. | Procurement of material, transportation and installation of a special net from the outside near the walls of the floor for their strengthening and plastering with hydraulic mortar and painting with white facade paint. | м2 |  | 74,40 |  |
| 7.3. | Procurement of material, transportation and installation of a special net on the inside of the walls of the first floor for their strengthening and plastering with extended plaster and painting with white facade paint. | м2 |  | 88,50 |  |
| 7.4. | Procurement of material, transportation and production of wooden substructure from the attic cornice, respecting the represented form and appearance, final plastering and painting with white facade paint. | м2 |  | 31,50 |  |
| 7.5. | Procurement of material, transport and plastering with extended plaster at a.b. canvas and painting with white facade paint. | м2 |  | 20,70 |  |
| 7.6. | Procurement of material, transport and plastering of the damaged ceilings and wall surfaces in the ground floor rooms. (The existing plaster on the ceiling surfaces is made of reed, with an area of ​​21m2). | м2 |  | 76,50 |  |
| 7.7. | Procurement of material, transportation and conservation treatment of the built-in plastered elements: sink and hearth in the working kitchen, removal of damaged plaster and its treatment. | pieces |  | 1,00 |  |
|  | **TOTAL: 7** |  |  |  |  |
| **8** | **COVERING WORKS** |  |  |  |  |
| 8.1. | Procurement of material, transportation and production of a four-way roof construction system double stool made of oak wood, which should be performed respecting the existing roof height and area. The dimensions of the structural wooden elements should be according to the static calculation. Horns are 12/12cm at a distance of 50cm, undercarriage 12/16cm, post 12/12cm, crossbar 12/12cm, clamps 2x5/20. (Ceiling beams on the first floor are given in carpentry.) Area is given in foundation. | м2 |  | 61 |  |
| 8.2. | Procurement, transport and installation of Turkish ceramic roof covering, on slats, waterproofing and full paneling from boards. (Waterproofing is included in insulating works). The slats have dimensions of 2.4/5 cm, the full formwork is made of boards with a height of 2.4 cm and should be protected with a protective coating. (As a quantity the oblique area is given). | м2 |  | 67,1 |  |
| 8.3. | Procurement of material and installation of a roof covering made of ribbed brown plasticized sheet at the added part on the west side, in the form of a single-pitched roof, carried out on wooden beams 12/12cm at a distance of 40cm, 5x7cm beams at a distance of 50cm, full paneling of boards 2 ,4 cm, protected with a coating for protection and waterproofing. (Waterproofing is included in insulating works). Fabrication and installation of sheet metal in the contact zones of the western part of the building next to the neighbor with a height of 20 cm and a length of 5.5 m. (The construction of a channelized gutter is recommended so as not to flood the sheet due to the slight slope of the roof.) Note: the supply, transport and installation of gutters is dealt with in the water and sewage project. | м2 |  | 11,4 |  |
|  | **TOTAL 8:** |  |  |  |  |
| **9** | **CARPENTRY WORKS** |  |  |  |  |
| 9.1. | Revision of the condition of the tie beams from the bondruc construction that should consolidate the floor. (This position is unavailable for inspection, and provides for the procurement of material, transportation, careful and gradual replacement, with a note that complete removal can lead to major damage to the bonded structure, and therefore a careful and partial replacement of only the damaged parts is recommended in order to the height of the building that will be visible on the facade is not increased. The connecting beams are made of oak wood, 14/14 cm, placed on the bond walls along and across the building. | м1 |  | 76,5 |  |
| 9.2. | Creation of a new ceiling construction from wooden oak beams under the four-pitched roof with the necessary chemical protection of the beams. The beams have dimensions 10/12, at a mutual distance of 50 cm. At the place of the ceiling beam where the main support - chair is placed, two wooden beams are placed, in three places, with dimensions 2x12/16cm (24/16) connected in one unit. (The replacement of the ceiling beams is carried out gradually with the possibility of doubling the beams in room number 3 on the floor in order to preserve the semicircular inner cornice which is in good condition. | м2 |  | 47 |  |
| 9.3. | Revision of the wooden inter-floor construction - of the wooden beams (between the ground floor and the floor which is currently closed, inaccessible for full inspection, plastered from below, covered with floor from above), procurement of material, transport, careful and gradual replacement of all damaged beams with new oaks, with previously required installation of wooden columns and beams for supporting the inter-floor construction. Strengthening the existing ones by placing new wooden beams next to them. The new wooden beams have dimensions of 12/14 cm and are placed at a distance of 50 cm between each other and should be impregnated before installation. \*The need to replace the wooden beams is defined on site by the conservation supervisor/engineer and the work is carried out under his control. | м2 |  | 37 |  |
| 9.4. | Procurement of material, transportation, careful and gradual replacement of all damaged beams with new oaks, with previously required installation of wooden columns and purlins to support the mezzanine structure in the part above the porch on the ground floor where there is a visible row of beams. The new wooden beams have dimensions of 12/16 cm and are placed at a distance of 50 cm between each other and should be impregnated before installation. | м2 |  | 12,5 |  |
| 9.5. | A selection of the well-preserved decorative elements from the wooden fence at the veranda and the same with previous conservation treatment are incorporated into the restored fence, with the addition of new ones. All new elements are made of oak wood with identical size, appearance and processing as the existing model. Protective treatment of old and newly installed with waterproof sadolin. The total length of the fence is 5.40m. | м1 |  | 5,4 |  |
| 9.6. | Procurement, transportation and production of two-legged wooden stairs with an angular arrangement with a width of 70 cm from oak wood, following the example of the existing ones. On-site dimensional check. Protective coating with sadolin on steps, handrails and pillars. | pieces |  | 1 |  |
| 9.7. | Conservation treatment of the authentic decorative elements of the fence near the stairs on the first floor (cleaning of paint layers, partial replacement of damaged parts with new ones with identical appearance and processing) and protective treatment of the wood. | м1 |  | 2,2 |  |
|  | **TOTAL 9:** |  |  |  |  |
| **10** | **UNDER LAYING WORKS** |  |  |  |  |
| 10.1. | Procurement of material, transport and installation of 24mm plank floor on the veranda, use of first class oak wood, protection with water resistant sadolin. In the contact zones with the wall surfaces, floor moldings 4/4 cm should be made of oak wood. | м2 |  | 16,5 |  |
| 10.2. | Procurement of material, transportation and installation of a wooden floor made of oak planks 24 mm with a plank width of 20 cm, in room no. 2, 3 and 4 on the floor with a floor area of ​​27 m2 and on the ground floor in the upper ground floor rooms with a floor area of ​​20.5 m2. In the contact zones with the wall surfaces, floor moldings 4/4 cm should be made of oak wood. | м2 |  | 47,5 |  |
| 10.3. | Procurement, transportation of material and execution of a floor made of stone slabs (green sandstone) in the entrance porch and in the basement with a thickness of 5 cm. The plates are placed in cement mortar, (on a previous leveling base made of cement mortar). Paving with stone slabs is also done on the existing stairs for access to the ground floor and on the landing in front of the entrance to room 3, on the fronts and treads. (The production of cement screed and waterproofing are included in masonry and waterproofing works). | м2 |  | 33 |  |
| 10.4. | Procurement of material, transportation and installation of stone slabs with a thickness of 3 cm, as a coating on the walls of a.b. jackets in the basement, placed on a layer of cement mortar and on other cement interventions previously made by the owners. | м2 |  | 15,00 |  |
|  | **TOTAL 10:** |  |  |  |  |
| **11.** | **PLASTER- CARDBOARD WORKS** |  |  |  |  |
| 11.1. | Procurement of material, transportation, fabrication and installation of a 10cm thick plasterboard wall near the toilet, which needs a door. The surface of the wall, without the door, is 3.3 m2. (The thermal insulation - tervol is built into insulating works). | м' |  | 3,3 |  |
| 11.2. | Procurement of material, production and installation of L - corner paneling of plasterboard in the toilet for the purpose of hiding the vertical from the vent and water pipe and filling with tervol. | м' |  | 2,5 |  |
| 11.3. | Procurement of material, production and placement of plasterboard coverings on a construction with a thickness of 10 cm, in room number 4 on the two internal walls for the purpose of equalizing the wall surface with the protrusion of a.b. jackets. | м2 |  | 8,30 |  |
|  | **TOTAL. 11:** |  |  |  |  |
| **12** | **INSULATION WORKS** |  |  |  |  |
| 12.1. | Procurement of material, transportation and installation of waterproof waterproofing - bikutop on the roof surface on top of the full sheeting of the roof boards. | м2 |  | 75,60 |  |
| 12.2. | Procurement of material, transportation and installation of waterproofing - hydromal flex applied according to the manufacturer's instructions in three coats on the basement slab and on the contact surfaces of the corner with the walls in the building. Hydromal flex is also installed on the slab in the porch and the toilet. | м2 |  | 40,00 |  |
| 12.3. | Procurement of material, transportation and installation of waterproofing - PVC film - (membrane) on the floorboards in the toilet, which will serve as a protection against leaking insulation during the construction of the cement lining in the toilet. | м2 |  | 2,20 |  |
| 12.4. | Procurement of material, transport and installation of thermal insulation - 10 cm thick tervol, between the ceiling beams (which are placed at a distance of 50 cm) on the basement rooms, on the rooms on the first floor, in the plasterboard wall near the toilet and in the wall coverings on the ground floor in room no 4. | м2 |  | 64,00 |  |
|  | **TOTAL. 12:** |  |  |  |  |
| **13** | **CARPENTRY WORKS** |  |  |  |  |
| 13.1. | Procurement of material, transport and installation of new wooden ceilings, following the example of the existing ones in rooms 2, 3, 4 on the floor and on the veranda, protective coating on the wood. The width of the wooden planks from the ceilings made of oak wood is about 20 cm, height 2.4 cm. Between the wooden planks and at the ends at the junction with the wall surfaces, installation of decorative moldings made according to the profile of the existing ceilings. Note: The semicircular wreath and its decorative painting should be kept in room number 3 on the first floor. | м2 |  | 34,3 |  |
| 13.2. | The existing wooden doors from rooms No. 2, 3, 4 on the floor are retained and treated accordingly (partial replacement of damaged parts of the wooden elements, complete cleaning of the existing paint, protection of the wood by painting with acrylic sadolin and the door wings are installed . | pieces |  | 3 |  |
| 13.3. | The existing doors from the premises with no. 2 and 3 on the ground floor are retained, the oil paint is removed, the wood is protected with acrylic sadolin and the door wings are installed. | pieces |  | 2 |  |
| Note: Before making the carpentry work, it is mandatory to check the dimensions on site. In the carpentry scheme, the positions and the method of opening the carpentry elements are given. For all positions for doors and windows, installation of the same should be included. | | |  |  |  |
| 13.4. | Procurement of material and production of a new entrance door - an oak gate, with an identical appearance to the existing one. Protective coating with waterproof sadolin. The position also includes dismantling of the existing door and necessary repairs / patching of damaged parts of the wall (position A). | pieces |  | 1 |  |
| 13.5. | Procurement of material, transportation and production of a new single-winged wooden door for the toilet on the ground floor according to the model of the door in room number 4 (position D). | pieces |  | 1 |  |
| 13.6. | Procurement of material, transport and production of a new single-winged wooden door under the stairs in the porch on the ground floor with dimensions 60/155cm (position G). | pieces |  | 1 |  |
| .  Note: \*Dismantling of the windows is included in preparatory work. For the following positions for the production of windows, the necessary repairs of damaged parts of the opening in the wall and installation of a wooden board / gutter on the outside - lined with copper sheet should be foreseen. | | |  |  |  |
| 13.7. | Manufacturing, transportation and installation of wooden double-hung windows with thermopane glass on the floor with dimensions 80x130cm (position 4). | pieces |  | 6 |  |
| 13.8. | Procurement of material, manufacturing, transportation and installation of windows on the floor on the south side and on the north side near the working kitchen with dimensions of 50/60 cm (position 5). | num. |  | 4 |  |
| 13.9. | Procurement of material, fabrication, transportation and installation of a wooden double-winged window on the south facade with dimensions of 75/90 cm made of oak wood, glazed, painted with acrylic sadolin (3 hands), together with the fabrication of a metal grid from vertical elements (according to the pattern of the existing ), (position 3). | num. |  | 1 |  |
| 13.10. | Procurement of material, production and installation of a new double-hung window with dimensions 90/133 on the high ground floor (position 1). | num. |  | 1 |  |
| 13.11. | Procurement of material, fabrication and installation of a new double-hung window with dimensions 120/135 on the high ground floor (position 2). | num. |  | 1 |  |
| 13.12. | Replacement of all damaged wooden beams placed as skylights with new ones. | pieces |  | 13 |  |
| 13.13. | Conservation treatment of the existing elements of the built-in furniture - musandra in room no. 3 on the first floor (cleaning of the greasy paint, repairs of the wooden elements and addition of new ones in the places of the missing ones). The musandra is 2.43m long, 2.2m high and 0.6m deep. | pieces |  | 1 |  |
| 13.14. | Conservation treatment of the existing wooden elements in room number 2 - working kitchen (cupboard, shelves), removal of paint coatings, damaged wooden elements and their appropriate replacement and processing. | pieces |  | 1 |  |
| 13.15. | Conservation treatment of the existing wooden wall shelves in rooms number 3 and 4 - removal of paint coatings and damaged wooden elements and their appropriate replacement and processing. | м1 |  | 20 |  |
| 13.16. | Replacement of all damaged existing wooden sashes in the stone masonry, joists, facade and interior paneling with new ones made of oak wood, following the example of the existing ones. Protective coating on the existing wooden elements and the newly installed ones. | м1 |  | 70,5 |  |
|  | **TOTAL 13.** |  |  |  |  |
| **14** | **Other works** |  |  |  |  |
| 14.1. | Procurement, transport and installation of accessories in the toilet: mirror with dimensions 50/100 cm with facets on 4 sides, rosfray toilet accessories: holder for toilet paper, holder for towels and soap and rosfray waste basket with foot opening. | pieces |  | 1,00 |  |
| 14.2. | Professional engineering - conservation supervision during the performance of the works. | pieces |  | 1 |  |
|  | **TOTAL 14.** |  |  |  |  |
|  |  |  |  |  |  |
|  | **RECAPITULATION ARCHITECTURE** |  |  |  | **Total EUR** |
|  |  |  |  |  |  |
| 1 | **PRIOR WORKS** |  |  |  |  |
| 2 | **PREPARATORY WORK** |  |  |  |  |
| 3 | **EARTHWORKS** |  |  |  |  |
| 4 | **CONCRETE WORKS** |  |  |  |  |
| 5 | **REINFORCEMENT WORKS** |  |  |  |  |
| 6 | **MASONRY AND TILE WORKS** |  |  |  |  |
| 7 | **FACADE WORKS, PLASTERING AND PAINTING** |  |  |  |  |
| 8 | **COVERING WORKS** |  |  |  |  |
| 9 | **CARPENTRY WORKS** |  |  |  |  |
| 10 | **UNDER LAYING WORKS** |  |  |  |  |
| 11 | **PLASTER - CARDBOARD WORKS** |  |  |  |  |
| 12 | **INSULATOR WORKS** |  |  |  |  |
| 13 | **CARPENTRY WORKS** |  |  |  |  |
| 14 | **OTHER WORKS** |  |  |  |  |
|  | **TOTAL** |  |  |  |  |
|  |  |  |  |  |  |
|  | **VAT 18%:** |  |  |  |  |
|  | **TOTAL WITH VAT 18%:** |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **item** | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
| 15 | **ENERGY DISTRIBUTION AND MEASUREMENT OF EL. ENERGY** |  |  |  |  |
| 15.1 | Junction box standard dimensions with 60cm, height 80cm and depth 22cm, (divided by two doors, upper 30cm and lower 50cm)  1х electricity meter 10- 60А кл.2  4х AO 10A kP.В, 1р  14х AO 16A kP.В, 1р  3х AO 32A kP.В, 1р  3x AO 16A kl.V, 1r (reserve) 1x FID assembly 40/0.03A, 4r with all auxiliary material such as copper rails, insulators, channels, ready for work | Piece |  | 1 |  |
| 15.2 | Excavation of a trench with a width of 0.4m  and "a depth of 0.8m from the location of the MRO to  the distribution substation" | m |  | 25 |  |
| 15.3 | Delivery and laying of live cable  NYY-А 4x25mm2 in an already dug trench.  At the same time, after burying  , gale guards are placed over the cable  and a screen is laid a little higher  strip FeZn 25x4mm | m |  | 40 |  |
| 15.4 | Use of sand for burying  trench with a width of 0.4 m and a depth of  0.8m at a height of 0.2m from the trench and  the rest is covered with already  the excavated earth | m |  | 25 |  |
|  | **TOTAL 15** |  |  |  |  |
| 16 | **ELECTRICAL INSTALLATIONS** |  |  |  |  |
| 16.1 | Delivery and laying of PVC hose Ф32mm before making concrete wall | m |  | 18 |  |
| 16.2 | Delivery and installation of PVC hose Ф23mm before making concrete wall | m |  | 9 |  |
| 16.3 | Delivery and laying of NYM-J cable 3x2.5mm2 for making shuko connection points. The cable is led in pre-made slots in the wall.  Average length of connection point is 15 meters | piece |  | 24 |  |
| 16.4 | Delivery and laying of NYM-J cable 3x2.5mm2 for making a connector place for boiler and heater. The cable is leads in pre-made slits in the wall. Average length of  connection point is 12 meters | piece |  | 2 |  |
| 16.5 | Delivery and laying of NYM-J cable 3x1.5mm2 for making bulbs  places. The cable is led in the previous made slots in the wall. Average the length of the bulb is 14 meters | piece |  | 24 |  |
| 16.6 | Delivery and laying of NYM-J cable 3x1.5mm2 for making bulbs  places for panic lamps. The cable is leads in pre-made slits in the wall. Average length of lamp spot is 12 meters | piece |  | 3 |  |
| 16.7 | Delivery and installation of the shutter socket, complete with wall socket | piece |  | 20 |  |
| 16.8 | Delivery and installation of double shock absorbers socket, complete with find out about in a wall | piece |  | 1 |  |
| 16.9 | Delivery and installation of the shutter socket with cover, complete with socket for in the wall | piece |  | 3 |  |
| 16.10 | Delivery and installation of ordinary modular switch 16A | piece |  | 17 |  |
| 16.11 | Delivery and installation of ordinary 16A modular switch with built-in signal lamp | piece |  | 3 |  |
| 16.12 | Delivery and installation of alternator modular switch 16A | piece |  | 2 |  |
| 16.13 | Delivery and installation of found modular 3R (toilet) | piece |  | 1 |  |
| 16.14 | Delivery and installation of modular 4R (all others) | piece |  | 9 |  |
| 16.15 | Delivery and installation of carrier modular 3R | piece |  | 1 |  |
| 16.16 | Delivery and installation of carrier modular 4R | piece |  | 9 |  |
| 16.17 | Delivery and installation of mask modular 3R | piece |  | 1 |  |
| 16.18 | Delivery and installation of mask 2R | piece |  | 9 |  |
| 16.19 | Delivery and installation of roofing caps for module 1R | piece |  | 18 |  |
| 16.20 | Delivery and installation of hanging decorative LED lamp,copper tahir 23W/830 with the shape of | piece |  | 4 |  |
| 16.21 | Delivery and installation of LED lamp 23W/830 IP44 ceiling | piece |  | 2 |  |
| 16.22 | Delivery and installation of LED lamp 14W/830 IP44 ceiling | piece |  | 9 |  |
| 16.23 | Delivery and installation of wall façade LED lamp 24W/830 IP54 | piece |  | 1 |  |
| 16.24 | Delivery and installation of the wall mirror lamp 13W/830 LED | piece |  | 1 |  |
| 16.25 | Delivery and installation of panic lamp 4W/830 marked EXIT LED | piece |  | 2 |  |
| 16.26 | Delivery and installation of panic lamp 4W/830 with arrow on the left | piece |  | 1 |  |
| 16.27 | Delivery and installation of low-mounted  water heater 8-10L, 2kW (under the porch sink and sanitary unit) | piece |  | 2 |  |
| 16.28 | Delivery and installation of water heater 50L, 2-3kW (bathroom) | piece |  | 1 |  |
| 16.29 | Delivery and installation of an infrared heater, 1.5-2kW (bathroom) | piece |  | 1 |  |
|  | **TOTAL 16** |  |  |  |  |
| 17 | **LOW-CURRENT INSTALLATIONS** |  |  |  |  |
| 17.1 | Excavation of a trench with a width of 0.4 m and depth of 0.8m for laying hoses, for fiber optic indentation and coaxial cable | m |  | 15 |  |
| 17.2 | Laying of a 23mm hose along an already dug trench for the insertion of fiber optic cable and coaxial cable from the location of the router to the point of connection (two hoses are laid in parallel) | piece |  | 2 |  |
| 17.3 | Laying a visual tape when filling the trench with the sign Warning! Cable! | m |  | 15 |  |
| 17.4 | Manufacture of fiber optic and coaxial cable terminations with sockets 100х100mm in the wall | piece |  | 2 |  |
| 17.5 | Laying a visual tape when filling the trench with the sign Warning! Cable! | m |  | 15 |  |
| 17.6 | Delivery and installation of WiFi router | piece |  | 1 |  |
|  | **TOTAL 17** |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **RECAPITULAR ELECTRICAL** |  |  |  | TOTAL EUR |
|  |  |  |  |  |  |
| 15 | **ENERGY DISTRIBUTION AND MEASUREMENT OF EL. ENERGY** |  |  |  |  |
| 16 | **ELECTRICAL INSTALLATIONS** |  |  |  |  |
| 17 | **LOW-CURRENT INSTALLATIONS** |  |  |  |  |
|  | **TOTAL :** |  |  |  |  |
|  | **VAT 18% :** |  |  |  |  |
|  | **TOTAL with WAT** |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **item** | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
|  | **WATER and SEWAGE (Internal)** |  |  |  |  |
| 18 | **PREPARATORY WORK** |  |  |  |  |
| 18.1 | Mobilization and demobilization of construction site, preparation of the construction site with mobilization, delivery of equipment and necessary tools. In the position to include that is to provide a temporary warehouse for the necessary materials. | lump sum |  | 1,00 |  |
| 18.2 | Provision of necessary documentation - Consents from Institutions that have movement of underground installations in the area, i.e. provision of consents for underground cadastre around the facility for reconstruction of yard installations and execution of newly designed water supply and sewerage | lump sum |  | 1,00 |  |
|  | **TOTAL 18** |  |  |  |  |
| **19** | **SANITARY COLD AND HOT WATER** |  |  |  |  |
|  | **Note: The following applies to all positions:** |  |  |  |  |
|  | Procurement of equipment and installation material, delivery with customs duties, storage and provision of construction site, complete with necessary small material, with installation of elements and connection by experts is paid. |  |  |  |  |
|  | **Note: For the origin of the materials for all positions:** |  |  |  |  |
|  | If there are markings or reference to a specific type / manufacturer of the material or equipment in the Bill of Quantities, it is for clarification and not for limitation. Each bidder is free to offer the equivalent of what is requested, a proving equivalence is his responsibility. |  |  |  |  |
| 19.1 | PPR pipes and fittings Polypropilen Random Copolimer – Type 3. Pipes should comply with DIN 8078 and EN ISO 15874-2 standards, and also have a potable water certificate issued by national institutions in the Republic of North Macedonia. |  |  |  |  |
| DN20мм = Ø1/2" | m' |  | 3,50 |  |
| DN25мм = Ø3/4" | m' |  | 15,00 |  |
| 19.2 | Procurement and installation of thermal insulation of rear and hot water PPR pipes. Sponge pipe insulation, CFC & HCFC free, formaldehyde free. Thermal conductivity: 0° - 0.036 W/(m°K), 40° - 0.040 W/(m°K). Water vapor diffusion resistance coefficient: µ ≥ 5000 EN 12086 (DIN 52615). Fire class: M1-NF, Class 1 BS476 / UNI |  |  |  |  |
| DN20мм = Ø1/2" | m' |  | 3,50 |  |
| DN25мм = Ø3/4" | m' |  | 15,00 |  |
| 19.3 | Supply and installation of bypass valves with a nickel-plated cover. Material for making the valves CnZN38Pb2. The valves should be manufactured according to the EN1213 standard, and the thread should correspond to ISO228-1:20011 and ISO228-1:2007 |  |  |  |  |
| Ø1/2" | piece |  | 3 |  |
| Ø3/4" | piece |  | 2 |  |
| 19.4 | Procurement, transport and installation of ordinary bypass valves Ø5/4" | piece |  | 1 |  |
| 19.5 | Supply, transport and installation of bypass valves with discharge Ø3/4" | piece |  | 1 |  |
| 19.6 | Supply and installation of angle EC valves for wash basins Ø1/2" - for cold and hot water | piece |  | 3 |  |
| 19.7 | Pressure testing according to standard, 1.5 of the intended max. pressure in the network with a duration of 24 hours, keeping a log and issuing a certificate | piece |  | 1 |  |
| 19.8 | Complete disinfection (chlorination) of the water supply network, keeping a diary, taking water samples and making bacteriological analyzes of water in accordance with the regulations on hygienic correctness for water and issuing a solution for the use of water. | piece |  | 1 |  |
| 19.9 | Execution of penetrations through existing stone or poplar walls for the implementation of hydrotechnical installations and return to the original state by closing the opening and coating with cement acrylic coating in 3 coats. | piece |  | 4 |  |
| **TOTAL 19** | | | | |  |
| **20** | **INTERNAL SEWAGE** | | | |  |
| 20.1 | Procurement, transport and installation of polypropylene noiseless sewer pipes and fittings for internal installations complete with fazon pieces. Pipes should comply with the following standards: N EN 1451-1 and fully DIN 19560-10 Production according to Z-42.1-217. Color light gray RAL 7035. ND 56-200 mm. Resistance to aggressive waters pH 2 to pH 12 - according to DIN 8078. Long-term temperature resistance up to 95 ºC. Quality of pipes and fittings DIN EN ISO 9001, Reg. No. 289722-QMO 8, for environmental protection ISO : 14001 : 2004. The price for m' includes all elbows, inclined handles, reducers, transitions, stops, revisions. Revisions are foreseen from each vertical, on each floor respectively. In the position are included, mounting lubricant, sealing rubbers highly resistant to acids, covers for revisions, anti-extraction shields for guiding on the ceiling or on the wall. |  |  |  |  |
| Ø56mm | m' |  | 10,00 |  |
| Ø70mm | m' |  | 5,00 |  |
| Ø100mm | m' |  | 4,00 |  |
| 20.2 | Supply and installation of top siphons with nickel plating |  |  |  |  |
| Ø 70мм - vertical | piece |  | 1 |  |
| 20.3 | Procurement, transport and installation of a galvanized wall grid for ventilation of a sewer vertical |  |  |  |  |
| Ø100мм | piece |  | 1 |  |
| 20.4 | Hydraulic examination of the sewage network by keeping a diary for the same and certification by the Supervising Engineer | m' |  | 19,00 |  |
| 20.5 | Execution of penetrations through existing stone or poplar walls for the implementation of hydrotechnical installations and return to the original state by closing the opening and coating with cement acrylic coating in 3 coats. | piece |  | 4 |  |
| **TOTAL 20** | | | | |  |
| **21** | **SANITARY** | | | |  |
| 21.1 | Procurement, transport and installation of a sink B=60 cm with a cabinet, with a metal nickel-plated siphon, for installation according to the architectural project. Calculation of a set of installed washbasins (after the approval of the Investor and the Supervising Engineer). The siphons should be nickel-plated. The installation of a flexible plastic siphon hose is not approved! | piece |  | 1 |  |
| 21.2 | Procurement, transport and installation of single-handed batteries for cold and hot water for wash basins. | piece |  | 2 |  |
| 21.3 | Procurement, transport and installation of WC shell. Calculation of a set of mounted WC bowl MONOBLOK with a low-mounted water cistern, bakelite cover, angle valve for connecting the cistern, type Baltic, in all according to the approval of the Investor and the Supervising Engineer) | piece |  | 1 |  |
| 21.4 | Procurement, transport and installation of electricity. Boilers complete with safety valve, holanders and armored hoses Boiler of 10 l. low-mounted | piece |  | 2 |  |
| **TOTAL 21** | | | | |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **item** | | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
|  | | **WATER and SEWAGE (Outdoor)** |  |  |  |  |
|  | | **Note: The following applies to all positions:** |  |  |  |  |
|  | | Procurement of equipment and installation material, delivery with customs obligations, storage and provision of construction site, complete with necessary small material, with installation of elements and connection by experts is paid. |  |  |  |  |
|  | | **Note: About the origin of the materials for all positions:** |  |  |  |  |
|  | | If there are marks in the Pre-measurement calculation or reference to a specific type / manufacturer of the material or equipment, the same is for the purpose of clarification and not of limitation. Each bidder is free to offer the equivalent of the requested, and the proof of equivalence is his obligation. |  |  |  |  |
| **22** | | **OUTDOOR PLUMBING** | | | | |
| 22.1 | | Marking and staking out the routes of the canal ditches | m' |  | 3,50 |  |
| 22.2 | | Taking out a granite cube, temporarily storage and protection and its re-stacking with prior compaction of the trench and a substrate of fine sand with a granulation of 0-4 mm. | m2 |  | 6,00 |  |
| 22.3 | | Manual and mechanical earth excavation III category in a narrow scope by providing the trench for laying the pipes (for sanitary water supply) |  |  |  |  |
| 22.4 | | Hand excavation 100% 0.5 x 1.0 x 3.50 x 2 | m3 |  | 3,50 |  |
| 22.5 | | Laying at the bottom of the trench with an accuracy of ±2 cm and spreading of fine sand d=10cm with granulation 0-4mm  3.500 х 0.50 х 0.10 | m3 |  | 0,20 |  |
| 22.6 | | Filling the trench with the excavated material after the assembly and testing of the installation, with material from the excavation and compaction in layers of 20-30 cm with mechanical compaction |  |  |  |  |
| 100% 0.5 х 1,0 x 7.00 x 2 | m3 |  | 7,00 |  |
| 22.7 | | Construction of a water measuring shaft 1.20x1.30x1.40m with excavation included, with concreting with MB 30 in smooth double-sided formwork with a thickness of walls and slabs of 20 cm. And reinforcement with mesh reinforcement Q221 and installation of risers f18 mm at 30 cm. Calculation per set of concreted water measuring shaft. | piece |  | 1 |  |
| 22.8 | | Procurement, transport and installation of fittings and phases in a water measuring shaft complete with joint material. |  |  |  |  |
| shutters f3/4 | piece |  | 1 |  |
| shutters f3/4 with an outlet | piece |  | 1 |  |
| 22.9 | | Supply, transport and installation of casting iron cover Ф600 mm for a water measuring manhole |  |  |  |  |
| hard tipe | piece |  | 1 |  |
| 22.10 | | Procurement, transport and installation of combined water meter according to the descriptions in the hydrotechnical conditions, an integral part of the project |  |  |  |  |
| water meter F3/4" | piece |  | 1 |  |
| 22.11 | | Manual excavation of earth category III in narrow girth for water meter shaft |  |  |  |  |
| 1.20 х 1.30 х 1.40 х 1 = | m3 |  | 2,50 |  |
| 22.12 | | Supply, transport and installation of casting iron cover Ф600 mm for a water measuring manhole |  |  |  |  |
| hard type | piece |  | 1 |  |
| 22.13 | | Pouring the penetrations with concrete and coating the poured areas with a waterproof coating on a cement acrylic base | piece |  | 2 |  |
| **TOTAL 22:** | | | | | |  |
| **23** | | **SEWAGE** | | | | |
| 23.1 | | Marking and staking out the routes of the canal ditches | m' |  | 3,50 |  |
| 23.2 | | Cutting concrete with a thickness of 15 to 30 cm with diamond rotary saw | m' |  | 3,50 |  |
| 23.3 | | Manual breaking of a thick concrete slab 15-30 cm with the help of a pick hammer and a compressor or mechanically with an impact hammer | m2 |  | 6,00 |  |
| 23.4 | | Excavation of earth category III in a narrow scale with providing the trench for laying the pipes |  |  |  |  |
| hand 100% , 4.00 х 0.50 х 1.0 | м3 |  | 2,00 |  |
| 23.5 | | Laying the bottom of the trench with an accuracy of ±2cm and spreading of fine sand d=10cm |  |  |  |  |
| 4.00 х 0.50 х 0.10 | м3 |  | 0,20 |  |
| 23.6 | | Filling the trench with the excavated material, after the installation and inspection of the installation, the backfilling of the first layer should be up to 30 cm above the top of the pipe with fine soil without stones and gravel and appropriate compaction. The remaining part should be filled with material from the excavation and compacted in layers of 20-30 cm with compactors. | м3 |  | 2,00 |  |
| 23.7 | | Procurement, transport and installation of sewers street sewer pipes complete with fazon pieces. Pipes should conform to the following standards: EN1451-1, EN13501-1 and stiffness class SN10. Long-term temperature resistance up to 95 ºC. Possibility of installation down to -10 ºC. |  |  |  |  |
| Ø 110mm | м1 |  | 4,50 |  |
| 23.8 | | Hydraulic examination of the sewerage system network | lump sum |  | 1,00 |  |
| 23.9 | | Penetration of the existing shaft and connecting the new sewer pipe OD110mm | lump sum |  | 1,00 |  |
| 23.10 | | Watering the penetration from the inspection shaft with concrete and coating the poured area with hydromal flex | piece |  | 1 |  |
| **TOTAL 23** | | | | | |  |
| **24** | | **TIN GUTTERS** | | | | |
| 24.1 | | Procurement, transport and installation of sheet metal horizontal gutters with a sheet thickness of 0.5mm, in a semi-circular shape with a diameter of 150mm, dark brown color, with steel sheet holders included, minimum thickness 3.5mm and a flat width of 30mm, twice painted with basic minium and once with dark brown color or black color upon approval of the Supervisory Authority | m' |  | 33,00 |  |
| 24.2 | | Procurement, transport and installation of sheet metal vertical gutters with a sheet thickness of 0.5mm, in a semi-circular shape with a diameter of 120mm, dark brown color, with included holders made of plasticized sheet metal, minimum thickness 3x0.5mm and a width of 30mm, dark brown color after the approval of the Supervisory Authority | m' |  | 16,00 |  |
| 24.3 | | Hydraulic testing of tin gutters | m' |  | 49,00 |  |
| **TOTAL 24** | | | | | |  |
|  | | | | | |  |
| **RECAPITULATION** | | | | | |  |
| **18** | **PREPARATORY WORK** | | | | |  |
| **19** | **SANITARY COLD AND HOT WATER** | | | | |  |
| **20** | **INTERNAL SEWAGE** | | | | |  |
| **21** | **SANITARY** | | | | |  |
| **22** | **OUTDOOR PLUMBING** | | | | |  |
| **23** | **SEWAGE** | | | | |  |
| **24** | **TIN GUTTERS** | | | | |  |
|  | **TOTAL** | | | | |  |
|  | **18% VAT** | | | | |  |
|  | **TOTAL with VAT 18%** | | | | |  |

**TOTAL RECAPITULATION LOT 1 - Conservation, restoration and reconstruction of property No22**

|  |  |
| --- | --- |
| **DESCRIPTION** | **EUR** |
| Architecture |  |
| Electricity |  |
| Water and sewage |  |
|  |  |
|  |  |
| **Total** |  |
| **VAT 18%** |  |
| **TOTAL with VAT** |  |

**LOT 2 - Reconstruction of accommodation facility in Spa Kezhovica and Creating an open-air museum at spring of mineral water**

*Reconstruction of accommodation facility in Spa Kezhovica*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **item** | | **DECSRIPTION** | | | | **Unit** | | **Unit price EUR** | **Firm quantity** | | **Total EUR** |
|  | | **Architecture- Construction work** | | | |  | |  |  | |  |
| **1** | | **PRIOR WORK** | | | |  | |  |  | |  |
| 1.1 | | Dismantling of ceramic tiles and slats from roof construction, along with loading and transport to a landfill up to 5km. | | | | m2 | |  | 300 | |  |
| 1.2 | | Dismantling of wooden roof structure, along with loading and transport to landfill up to 5km. | | | | m2 | |  | 300 | |  |
| 1.3 | | Dismantling of ceiling wooden beams, cane and plaster and decorative ceiling-“Armstrong” or similar, eaves and chimneys), along with loading and transport to a landfill up to 5km. | | | | m2 | |  | 260 | |  |
| 1.4 | | Dismantling of eaves, together with loading and transport to a landfill up to 5 km away. | | | | m' | |  | 83 | |  |
| 1.5 | | Demolition of chimneys, 75/40 cm along with loading and transport to a landfill up to 5 km. | | | | m' | |  | 17 | |  |
| 1.6 | | Dismantling of doors and boxes for them, along with loading and transport to the developer's store. | | | | m2 | |  | 38,5 | |  |
| 1.7 | | Manual removal of existing plaster from existing walls d=2mm-4mm, along with loading and transport to a landfill up to 5km. | | | | m2 | |  | 780 | |  |
| 1.8 | | Dismantling of floor and wall ceramic tiles in bathrooms and kitchens, along with loading and transport to a landfill up to 5m. | | | | m2 | |  | 96 | |  |
| 1.9 | | Breaking of a concrete floor substrate - lean concrete d=10cm - with loading and transport to a landfill, at a distance of up to 5km. | | | | m3 | |  | 21 | |  |
| 1.10 | | Dismantling of existing sanitary equipment and plumbing installation (for 4 bathrooms and kitchen) flat rate | | | | lump sum | |  | 1 | |  |
| 1.11 | | Dismantling of an existing energy installation (flat rate) | | | | lump sum | |  | 1 | |  |
|  | | **TOTAL 1** | | | | | | | | |  |
| **2.** | | **EARTH WORKS** | | | |  | |  |  | |  |
| 2.1 | | Excavation of the ground with manual removal, loading and transport to the landfill up to 5m. | | | | m3 | |  | 62 | |  |
| 2.2 | | Procurement, transport and placement of buffer in a layer of 15 cm with compaction. | | | | m3 | |  | 32 | |  |
|  | | **TOTAL 2** | | | | | | | | |  |
| **3.** | | **CONCRETE WORKS** | | | | | | | | | |
| 3.1 | | Procurement, transport and installation of lean concrete on a concrete floor slab d=5cm, MB 20 | | | | m3 | |  | 11 | |  |
| 3.2 | | Procurement, transport and making of a concrete floor slab d=10cm, MB 30 reinforced with Q 131 | | | | m3 | |  | 21 | |  |
| 3.3 | | Procurement, transport and installation of a leveling layer with cement screed made of reinforced concrete d=5cm together with a border net | | | | m3 | |  | 11 | |  |
| 3.4 | | Procurement of transport and installation of concrete for reinforced concrete cerclages and beams with dimensions 30/30 with MB 30 in smooth formwork | | | | m3 | |  | 17 | |  |
| 3.5 | | Procurement, transport and installation of concrete MB30 for reinforcement concrete slab d=12 cm (preparing formwork) | | | | m3 | |  | 8 | |  |
| 3.6 | | Procurement, transport and production of external entrance concrete steps d=12cm (details available) | | | | m3 | |  | 1,6 | |  |
| 3.7 | | Procurement, transport and installation of concrete MB 30 on external reinforced concrete eaves with cornices according to detail d=10cm (in smooth formwork) | | | | m3 | |  | 8,3 | |  |
|  | | **TOTAL 3** | | | | | | | | |  |
| **4.** | | **REINFORCEMENT WORKS** | | | | | | | | | |
| 4.1 | | Procurement, transport and installation of RA reinforcement (as per specification) | | | |  | |  |  | |  |
| RA 400/500-2 | | | | kg | |  | 3758 | |  |
|  | | **TOTAL 4** | | | | | | | | |  |
| **5.** | | **MASONRY AND PLASTERING WORKS** | | | |  | |  |  | |  |
| 5.1 | | Masonry of an external shield wall from a hollow ceramic block with d=25cm in cement mortar together with final chorus and ver.cerclages 12/25cm reinforced with 4 f8 and stirrups f6 | | | | m3 | |  | 3,5 | |  |
| 5.2 | | Plastering of internal walls with extended plaster, scale 1:3:9 | | | | m2 | |  | 780 | |  |
| 5.3 | | Plastering of internal walls with primer-cement mortar, (in the bathroom) | | | | m2 | |  | 60 | |  |
| 5.4 | | Plastering of ceilings with extended plaster, scale 1:3:9 | | | | m2 | |  | 80 | |  |
|  | | **TOTAL 5** | | | | | | | | |  |
| **6.** | | **PLASTER WORKS** | | | |  | |  |  | |  |
| 6.1 | | Procurement, transport and installation of a suspended ceiling made of gypsum-cardboard plates system "Knauf", moisture resistant, together with primary bearing and secondary construction | | | | m2 | |  | 120 | |  |
|  | | **TOTAL 6** | | | | | | | | |  |
| **7.** | | **CARPENTRY WORKS** | | | |  | |  |  | |  |
| 7.1 | | Procurement of material, transportation and production of a wooden roof structure made of second-class sawn timber, with dimensions 12/16, 10/14, etc. ,(according to given specification) Measured in horizontal projection. | | | | m2 | |  | 300 | |  |
|  | | **TOTAL 7** | | | | | | | | |  |
| **8** | | **COVERING WORKS** | | | |  | |  |  | |  |
| 8.1 | | Procurement of material, transport and construction of a roof made of tiles, together with slats 3/5cm placed on a formwork made of boards d=2.5cm and diffusion film Measured in a horizontal projection. | | | | m2 | |  | 300 | |  |
|  | | **TOTAL 8** | | | | | | | | |  |
| **9.** | | **LOCKSMITHS WORKS (doors)** | | | | | | | | | |
| 9.1 | | Procurement, transport and installation of aluminum doors external entrance single-wing metal door with partially tempered safety thermo pan glass together with zipper lock, handles and shields 100x220 | | | | piece | |  | 4 | |  |
| 9.2 | | Procurement, production, transport and installation of internal doors made of PVC profiles together with cash registers, patent locks, handles and shields 90x210 | | | | piece | |  | 13 | |  |
| 9.3 | | Procurement, production, transport and installation of internal doors made of PVC profiles together with cash registers, patent locks, handles and shields 80x210 | | | | piece | |  | 4 | |  |
|  | | **TOTAL 9:** | | | | | | | | |  |
| **10.** | | **SUB-LAYINGS WORKS** | | | | | | | | |  |
| 10.1 | | Procurement of material, transport and installation of floor ceramic tiles 30/30 cm first class, color and pattern according to the investor's choice, with glue on a ready-made leveling layer complete with grouting d=2mm filled with grouting mass (for WC, kitchen and entrance corridors,) complete with making plinths and thresholds. | | | | m2 | |  | 75 | |  |
| 10.2 | | Procurement, transport and installation of ceramic wall tiles in the bathroom and kitchen. with tiles 30/30cm first class, color and pattern according to the investor's choice, with glue on the finished leveling layer complete with a joint of d=2mm. Edge aluminum moldings should be placed on all horizontal and vertical violations (with a height of 2.10m). | | | | m2 | |  | 55 | |  |
| 10.3 | | Procurement, transportation and installation of a laminate floor d=10mm with massive veneer on a previously made cement screed, complete with a felt base and corner moldings. | | | | m2 | |  | 210 | |  |
|  | | **TOTAL 10:** | | | | | | | | |  |
| **11** | | **INSULATION WORKS** | | | |  | |  |  | |  |
| 11.1 | | Procurement, transportation and installation of material for the production of horizontal thermal insulation from Styrodul d=7cm placed under the floor slab | | | | m2 | |  | 210 | |  |
| 11.2 | | Procurement, transportation and installation of thermal insulation from tervol d=12 cm placed above the ceiling. | | | | m2 | |  | 260 | |  |
|  | | **TOTAL 11:** | | | | | | | | |  |
| **12.** | | **PAINTING WORKS** | | | |  | |  |  | |  |
| 12.1 | | Procurement of material, transport, smoothing and painting with eco-dispersive paint on wall and ceiling surfaces. | | | | m2 | |  | 990 | |  |
|  | | **TOTAL 12:** | | | | | | | | |  |
| **13.** | | **FAÇADE WORKS** | | | |  | |  |  | |  |
| 13.1 | | Procurement of material, transport and production of "Demit" facade d=7cm are complete, finished with "abricht" in the color of the designer's choice. | | | | m2 | |  | 290 | |  |
| 13.2 | | Procurement of material, transportation and production of "facade coating of eaves - with concrete smoothing. Surfaces and processing of abricht with a color of the designer's choice. | | | | m2 | |  | 99 | |  |
| 13.3 | | Procurement of material, transport and processing of a facade plinth with travertine d=2cm bunja-gatarized in cement mortar, complete with leveling of existing plaster and priming of cement mortar | | | | m2 | |  | 50 | |  |
| 13.4 | | Procurement of material, transport and processing of side facade with travertine d=2cm in cement mortar processing, together with leveling of existing facade plaster and priming with cement mortar | | | | m2 | |  | 23 | |  |
|  | | **TOTAL 13** | | | | | | | | |  |
| **14.** | | **SHEET METAL WORK:** | | | |  | |  |  | |  |
| 14.1 | | Procurement, transportation, and installation of horizontal gutters made of galvanized plasticized flat sheet d=0.6mm and r.sh.650mm complete with necessary holders (flaches). | | | | m' | |  | 70 | |  |
| 14.2 | | Supply, transport and installation of vertical gutters made of plasticized flat sheet d=0.5mm, and r.w 520mm complete with brackets. | | | | m' | |  | 25 | |  |
| 14.3 | | Procurement, transportation and installation of window coverings - banks and from plasticized flat sheet d=0.5mm, and r.sh.200mm | | | | m' | |  | 22 | |  |
| 14.4 | | Procurement, transport and wrapping of wreaths with a width of 450 mm from a plasticized flat sheet in red color | | | | m' | |  | 70 | |  |
| 14.5 | | Procurement, transport and lining of ceramic tiles and horizontal gutter 550 mm from plasticized flat sheet. | | | | m' | |  | 70 | |  |
| 14.6 | | Procurement, transport and plating of fenders r.sh 470 mm from plasticized flat sheet. | | | | m' | |  | 23 | |  |
|  | | **TOTAL 14** | | | | | | | | |  |
|  | **ARCHITECTURE RECAPITULATION** | | | | | | **EUR** | | |
| 1 | Prior works | |  |  |  | |  | | |
| 2 | EARTHWORKS | |  |  |  | |  | | |
| 3 | Concrete works | | | | | |  | | |
| 4 | Reinforcement works | |  |  |  | |  | | |
| 5 | Masonry and plastering works | | | | | |  | | |
| 6. | Plaster works | | | | | |  | | |
| 7 | Carpentry works | | | | | |  | | |
| 8. | Covering works | |  |  |  | |  | | |
| 9. | Locksmiths works (doors) | | | | | |  | | |
| 10. | Sub-layings works | | | | | |  | | |
| 11. | Insulation works | | | | | |  | | |
| 12. | Painting works | |  |  |  | |  | | |
| 13. | Facade works | |  |  |  | |  | | |
| 14. | Sheet metal work: | | | | | |  | | |
|  | **TOTAL:** | | | | | |  | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **item** | | **DECSRIPTION** | **Unit** | | **Unit price EUR** | **Firm quantity** | | **Total EUR** |
|  | | **ELECTRICITY** |  | |  |  | |  |
| **15** | | **ELECTRICAL INSTALLATION WORKS** |  | |  |  | |  |
| 15.1 | | Procurement of transport and installation of KPO for built-in installation with 12 numbers of main fuses | № | |  | 1 | |  |
| 15.2 | | Procurement, transport and installation of RT 1 floor panel for ground floor made of PVC for flush mounting with 3 DIN rails for 36 numbers of automatic fuses | № | |  | 1 | |  |
| 15.3 | | Procurement, transport and installation of RT kitchen, RT2/3 floor boards for ground floor made of PVC for flush mounting with 2 DIN rails for 24 numbers of automatic fuses | № | |  | 3 | |  |
| 15.4 | | Procurement and laying of cable type PP00A 4x16mm² from MRO to KPO guided in a flexible hose buried in a trench and partially in a wall under plaster. | m. | |  | 20 | |  |
| 15.5 | | Procurement and laying of cable type PP00 5x10mm² from KPO to floor switchboards led in a wall under plaster. | m. | |  | 50 | |  |
| 15.6 | | Procurement and laying of cable type PP00 5x2.5 mm² from floor distribution boards to distribution boxes led in a wall under plaster. | m. | |  | 120 | |  |
| 15.7 | | Procurement and laying of a cable type PP00 3x2.5 mm² from distribution boxes to single-phase connectors led partly in a wall under plaster and partly in ducts. | m. | |  | 200 | |  |
| 15.8 | | Procurement and laying of cable type PP00 3x1.5 mm² from junction boxes to switches, lighting and panic lamps led partly in the wall under plaster and partly in ducts. | m. | |  | 100 | |  |
|  | | **TOTAL 15** | | | | | |  |
| **16** | | **PROCUREMENT AND INSTALATION OF CONNECTORS:** |  | |  |  | |  |
| 16.1 | | Procurement and installation of a single-phase socket - 250V, 16A | № | |  | 75 | |  |
| 16.2 | | Supply and installation of a single-phase socket - waterproof 250V, 16A | № | |  | 4 | |  |
| 16.3 | | Supply and installation of three-phase socket 250V, 16A | № | |  | 1 | |  |
| **TOTAL 16** | | | | | | | |  |
| **17** | | **SUPPLY AND INSTALATIO OF SWITCHES:** |  | |  |  | |  |
| 17.1 | | Supply and installation of an ordinary switch, 250V/10A | № | |  | 18 | |  |
| 17.2 | | Supply and installation of a series switch, 250V/10A | № | |  | 6 | |  |
| 17.3 | | Supply and installation of AC switch, 250V/10A | № | |  | 0 | |  |
| 17.4 | | Supply and installation of an electric bell button, 250V/10A | № | |  | 0 | |  |
| **TOTAL 17** | | | | | | | |  |
| **18** | | **PURCHASE AND INSTALATION OF LAMPS:** |  | |  |  | |  |
| 18.1 | | Supply and installation of a waterproof ceiling lamp for a sanitary junction and external light, 220V, LED 11W | № | |  | 8 | |  |
| 18.2 | | Procurement and installation of lamps for lighting the interior space 220V, LED 20W | № | |  | 25 | |  |
| 18.3 | | Procurement and installation of panic lamps with built-in battery 220V, LED 9W | № | |  | 6 | |  |
| 18.A | | Earthing and lightning rods: | | | | | | |
| 18.5 | | Procurement, installation and laying of galvanized Fe-Zn 25x4mm strip, placed in a concrete foundation, as protective grounding | kg. | |  | 120 | |  |
| 18.6 | | Procurement, installation and laying of galvanized Fe-Zn 20x3mm tape, placed on the roof structure and along vertical lines as a protective lightning rod | kg. | |  | 150 | |  |
| 18.7 | | Supply and installation of Fe-Zn track-to-track cross connectors | № | |  | 25 | |  |
| 18.8 | | Procurement and installation of Fe-Zn roof brackets | № | |  | 120 | |  |
| 18.9 | | Supply and installation of Fe-Zn gutter clamps | № | |  | 4 | |  |
| 18.10 | | Supply and installation of Fe-Zn measuring joints, complete with mounting box | № | |  | 10 | |  |
| **TOTAL 18** | | | | | | | |  |
| **19** | | **PROCUREMENT AND INSTALATIO OF AUTOMATIC FUSES:** |  | |  |  | |  |
| 19.1 | | Procurement and installation of automatic fuses B 63A, 1p | № | |  | 3 | |  |
| 19.2 | | Supply and installation of automatic fuses B 25A, 1p | № | |  | 12 | |  |
| 19.3 | | Supply and installation of automatic fuses B 20A, 1p | № | |  | 3 | |  |
| 19.4 | | Procurement and installation of automatic fuses B 16A, 1p | № | |  | 80 | |  |
| 19.5 | | Supply and installation of automatic fuses B 10A, 1p | № | |  | 10 | |  |
| 19.6 | | Supply and installation of protective feed assembly 220/380V, 40/0.3A | № | |  | 4 | |  |
| **TOTAL 19** | | | | | | | |  |
| **20** | | **TESTING AND COMMISSIONING:** |  | |  |  | |  |
| 20.1 | | Measurement of protective grounding and issuance of a certificate | lump sum | |  | 1 | |  |
| 20.2 | | Checking and testing the correctness of electrical installation | lump sum | |  | 1 | |  |
| **TOTAL 20** | | | | | | | |  |
|  | | | | | | | |  |
|  | **ELECTRICITY RECAPITULATION** | | | **EUR** | | |
| **15** | **ELECTRICAL INSTALLATION WORKS** | | |  | | |
| **16** | **PROCUREMENT AND INSTALATION OF CONNECTORS** | | |  | | |
| **17** | **SUPPLY AND INSTALATIO OF SWITCHES** | | |  | | |
| **18** | **PURCHASE AND INSTALATION OF LAMPS** | | |  | | |
| **19** | **PROCUREMENT AND INSTALATIO OF AUTOMATIC FUSES** | | |  | | |
| **20** | **TESTING AND COMMISSIONING** | | |  | | |
|  | **TOTAL:** | | |  | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **item** | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
|  |  |  |  |  |  |
| **21** | **MEHANICAL INSTALATION** |  |  |  |  |
| 21.1 | Procurement, transportation and installation of a 30 KW helical heat exchanger, made of stainless steel with the ability to clean the sediment. Brand: Solarico or similar, type: 440U or similar | num. |  | 1 |  |
| 21.2 | Procurement, transport and installation of aluminum radiator fins with a center distance of 600 mm. Brand: Ferroli or similar, type: PROTEO HP 700( or similar) | rib |  | 210 |  |
| 21.3 | Radiator set | num. |  | 18 |  |
| 21.4 | Brackets for aluminum radiators set (upper and lower) | num. |  | 36 |  |
| 21.5 | Riser radiator valve with thermal head with couplings for alumplast or similar hose F16mm | num. |  | 18 |  |
| 21.6 | Double nipples 1" for connecting radiator fins | num. |  | 30 |  |
| 21.7 | Cassette for dispensers with a length of 80 cm | num. |  | 2 |  |
| 21.8 | Ball valves 1" with Hollander | num. |  | 4 |  |
| 21.9 | 9 Hole 1" Brass Distributors | num. |  | 4 |  |
| 21.10 | Automatic air valve | num. |  | 2 |  |
| 21.11 | Mini valves | num. |  | 36 |  |
| 21.12 | Couplings for Alumplast, male F16 | num. |  | 36 |  |
| 21.13 | Alumplast hose F16 | m |  | 400 |  |
| 21.14 | Cu copper pipe |  |  |  |  |
| Ф35 | m |  | 30 |  |
| Ф28 | m |  | 25 |  |
| 21.15 | Insulation of copper pipes with tervol or similar ( Rock Mineral Wool) and protected with aluminum sheet | m |  | 55 |  |
| 21.16 | Cu fitting 30% of position 14 | lump sum |  | 1 |  |
| 21.17 | Sponge insulation for Alumplast hose F16 | m |  | 400 |  |
| 21.18 | PVC protective hose F28 | m |  | 400 |  |
| 21.19 | Expansion vessel with V=30l | num. |  | 1 |  |
| 21.20 | Circulation pump with a flow of 1530 kg/h and 10 Kpa with a 5/4" Hollander | num. |  | 1 |  |
| 21.21 | Ball valves 6/4" with Hollander | num. |  | 2 |  |
| 21.22 | Ball valves 5/4" with Hollander | num. |  | 2 |  |
| 21.23 | Ball valves 5/4" | num. |  | 2 |  |
| 21.24 | Thermo manometer | num. |  | 1 |  |
| 21.25 | Faucet for filling and emptying the system | num. |  | 1 |  |
| 21.26 | Safety valve 3 bar | num. |  | 1 |  |
| 21.27 | 6/4" PP pipe insulation with 20mm thick sponge insulation | m |  | 8 |  |
| 21.28 | Construction of a concrete channel in front of the building with a length of 17 m, with drainage to the sewer or other recipient according to the drawing | m |  | 17 |  |
| 21.29 | Filling the system with glycol | l |  | 400 |  |
| **TOTAL 21** | | | | |  |
|  | **WATER AND SEWAGE** |  |  |  |  |
|  | **COURTYARD EXTERIOR SEWAGE** |  |  |  |  |
| 22 | **EARTHWORKS** |  |  |  |  |
| 22.1 | The external sewage pipes are placed at the same time as the water pipes in the same trench |  |  |  |  |
| **TOTAL 22** | | | |  |  |
| 23 | **CONCRETE WORKS** | | | | |
| 23.1 | Complete construction of a reinforced concrete inspection manhole with MB20 with a bright opening 1.0x1.0 m with a built-in kitchen with walls and a plate d=15 cm, reinforced on both sides with Q188 mesh, plastered with cement mortar with an addition for waterproofing and a light cast iron cover. | num. |  | 5 |  |
|  | **TOTAL 23** |  |  |  |  |
| **24** | **PLUMBING WORKS** |  |  |  |  |
| 24.1 | Procurement and installation of PP-HM sewage pipes made of polyethylene corrugated two-layer pipes class SN 8 connected to PPHN muffs. |  |  |  |  |
| f100 | m' |  | 60 |  |
|  | **TOTAL 24** |  |  |  |  |
| **25** | **INTERNAL SEWAGE** |  |  |  |  |
| 25.1 | Procurement, transport and installation of PVC sewer pipes with the production of all necessary slits and penetrations joined together with patching and sealing of slits and penetrations according to regulations. |  |  |  |  |
| Ø100 | m' |  | 11 |  |
| Ø50 | m' |  | 4,5 |  |
| 25.2 | Procurement, transport and installation of a vertical drain F100 with stainless steel protective grid. | num. |  | 6 |  |
|  | **TOTAL 25** |  |  |  |  |
| 26 | **SANITARY ITEMS** |  |  |  |  |
| 26.1 | Supply, transport and installation of a white faience wash basin dimension 25/40 complete with a chrome siphon for the wash basin and connecting elements. Calculation per set of installed washbasin. | num. |  | 4 |  |
| 26.2 | Supply, transport and installation of an earthenware white mug, complete with washer and screws, plastic inlet pipe and low-mounted cistern and two-piece lid. Calculation per set of mounted toilet bowl. | num. |  | 4 |  |
| 26.3 | Procurement, transport and installation of a stainless-steel sink for a working kitchen | num. |  | 1 |  |
| 26.4 | Procurement, transportation and installation of flow-through single-pipe water heaters together with a faucet (installed on a cold water supply) with a small capacity of 6 litres (for WC) | num. |  | 4 |  |
| 26.5 | Procurement, transport and installation of low-mounted boiler - 10 l complete with valve and all connecting elements (for kitchen) | num. |  | 1 |  |
| 26.6 | Procurement, transport and installation of a mouse battery for hot and cold water | num. |  | 5 |  |
| 26.7 | Procurement, transport and installation of : |  |  |  |  |
| mirrors over sinks | num. |  | 4 |  |
| countertops over sinks | num. |  | 4 |  |
| towel holders | num. |  | 4 |  |
|  | **TOTAL 26** |  |  |  |  |
|  | ***WATER NETWORK PLUMBING*** |  |  |  |  |
| 27 | **EARTHWORKS** |  |  |  |  |
| 27.1 | Earth excavation III category, 70% mechanical and 30% manual for a channel trench with a width of 0.8m and a depth of over 1.2m (due to protection against freezing) and earth excavation for a water measuring shaft 1.6/2.6/2.0, with rejection of the excavated material at a distance of 0.6m from the edge of the ditch. | m³ |  | 58,0 |  |
| 27.2 | Procurement, transportation and installation of sand in layers of 10 cm under the pipes and 10 cm above the pipes, with compaction, and due to mechanical protection. | m³ |  | 10,0 |  |
| 27.3 | Backfilling of a canal ditch with the excavated material, sorted by compaction in layers of 15-20 cm | m³ |  | 48,0 |  |
| 27.4 | Loading and transportation of the surplus of the excavated material with unloading or possible spreading. | m³ |  | 13,0 |  |
|  | **TOTAL 27** |  |  |  |  |
| 28 | **CONCRETE WORKS** |  |  |  |  |
| 28.1 | Complete construction of a reinforced concrete manhole for housing a water meter with light dimensions 1.6x2.6x2.0m, with MB20 and a wall thickness of 20cm, double reinforced with reinforcing mesh Q131, with a light cast iron type cover, miniaturized, complete with plastering on internal walls with cement plaster with the waterproofing additive and installation of concrete iron stairs Ø20. | piece |  | 1 |  |
|  | **TOTAL 28** |  |  |  |  |
| 29 | **PLUMBING WORKS** |  |  |  |  |
| 29.1 | Procurement and installation of a combined water meter complete with all fittings elements. | br. |  | 1 |  |
| 29.2 | Procurement, transport and installation of PVC water pipes in the trench with the production of all the necessary slots and penetrations joined together. The pipes should be embedded in a layer of 10 cm of sand in the trench. |  |  |  |  |
| 3/4" | m' |  | 60,0 |  |
|  | **TOTAL 29** |  |  |  |  |
|  | **INTERNAL PLUMBING** |  |  |  |  |
| 30 | **PLUMBING WORKS** |  |  |  |  |
| 30.1 | Procurement, transport and installation of PVC water pipes with the production of all necessary slits and penetrations joined together with patching and sealing of slits and penetrations according to regulations. |  |  |  |  |
|  | **3/4''** | m' |  | 4 |  |
|  | **1/2''** | m' |  | 10 |  |
| 30.2 | Supply and installation of EC valves f1/2 with chrome cover caps, installed in front of each toilet cistern. | num. |  | 4 |  |
| 30.3 | Supply and installation of EC valves f1/2 with chrome cover caps, for sinks | num. |  | 8 |  |
| 30.4 | Supply and installation of PP permeable valves for installation in the wall with nickel-plated cap and rosette  Ø 3/4" | num. |  | 3 |  |
| 30.5 | Supply and installation of PP permeable valves   Ø 1/2" | num. |  | 1 |  |
|  | **TOTAL 30** |  |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | **MEHANICAL INSTALATION, WATER AND SEWAGE RECAPITULATION** | **EUR** |
| **21** | **MEHANICAL INSTALATION** |  |
| **22** | **EARTHWORKS** |  |
| **23** | **CONCRETE WORKS** |  |
| **24** | **PLUMBING WORKS** |  |
| **25** | **INTERNAL SEWAGE** |  |
| **26** | **SANITARY ITEMS** |  |
| **27** | **EARTHWORKS** |  |
| **28** | **CONCRETE WORKS** |  |
| **29** | **PLUMBING WORKS** |  |
| **30** | **PLUMBING WORKS – INTERNAL PLUMBING** |  |
|  | **TOTAL:** |  |

**TOTAL RECAPITULAR Reconstruction of accommodation facility in Spa Kezhovica**

|  |  |  |
| --- | --- | --- |
| **POSITION** | | **Total amount EUR** |
| 0-14 | **ARCHITECTURE** |  |
| 15-20 | **ELECTRICITY** |  |
| 21 - 30 | **MEHANICAL INSTALATION, WATER AND SEWAGE** |  |
|  | **TOTAL** |  |
|  | **VAT 18%** |  |
|  | **Total lump-sum price ( with VAT)** |  |

*Creating an open-air museum at spring of mineral water*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **item** | **DECSRIPTION** | **Unit** | **Unit price EUR** | **Firm quantity** | **Total EUR** |
| 1 | **PREPARATORY WORKS** |  |  |  |  |
| 1.1 | Marking and insurance of the field | m² |  | 177,00 |  |
| 1.2 | Manual removal of the existing concrete slabs in which they are located on site (access stairs and seating areas on the lower part), with the removal of the material to a landfill determined by the Investor. | m² |  | 27,84 |  |
| 1.3 | Removal of the existing behaton elements on the site, placed on the lower part of the floor and on the front wall above the water pool, with the removal of the material to a landfill determined by the Investor. | m² |  | 52,00 |  |
| 1.4 | Removal of the existing behaton elements on the site, placed on the north side of the upper level where a new access upper stone path passing over the tank is foreseen, with the removal of the material to a landfill determined by the Investor. | m² |  | 25,00 |  |
| 1.5 | Clearing the upper stone path above the reservoir of rockfall material by hauling the material to a landfill determined by the Investor. | m² |  | 36,00 |  |
| 1.6 | Clearing the rocky terrain located to the left of the access stairs leading to the lower part where the pool of water is located. It is necessary to clear the terrain of wild plants, to clear parts that could collapse so that they do not collapse further. by transporting the material to a landfill determined by the Investor. | lump sum |  | 1,00 |  |
| 1.7 | Demolition of the parapet walls forming the water pool as it is in its existing condition, together with its expansion according to the technical drawings. by transporting the material to a landfill determined by the Investor. | m3 |  | 2,00 |  |
| 1.8 | Removal of the upper layer (concrete cap) from the stone wall that borders the area from the side with the river, for its further surfacing, with the material being transported to a landfill determined by the Investor. L=58 \* 0.4cm | m2 |  | 23,20 |  |
| 1.9 | Cleaning of the existing water drainage channel from the pool to the shaft, for its further use. | lump sum |  | 1,00 |  |
| **TOTAL 1** | | | |  |  |
| 2 | **EARTHWORKS** |  |  |  |  |
| 2.1 | Hand Excavate the ground to the right of the access steps (south entrance) to the stone retaining wall where there is a bechaton plateau. Excavation of the ground is carried out in order to expand the access stairs in that space as well. By taking away the waste material to a landfill determined by the Investor. | m³ |  | 4,40 |  |
| 2.2 | Manual Excavation of ground d=20cm, on the north side of the place where the behaton elements are removed (upper part) for placing the ab plate. By taking away the waste material to a landfill determined by the Investor. | m³ |  | 17,20 |  |
| 2.3 | Procurement, transport and installation of buffer material d=20 on the upper part on the north side of the place where the new leg of stairs reaches. | m³ |  | 17,20 |  |
| 2.4 | Procurement, transport and installation of buffer material under the newly designed leg of stairs that pass over the existing cascades for egress from the lower part to the other side of the site. | m³ |  | 2,64 |  |
| **TOTAL 2** | | | |  |  |
| 3 | **CONCRETE AND REINFORCED CONCRETE WORKS** |  |  |  |  |
| 3.1 | Making of A.B. Stairs with MB30 (two legs) access from both sides,  1. one leg is 110cm wide per leg, stair height 17cm and stair width 30cm 2. the other access leg has a variable leg width, stair height 15cm and stair width variable, with several steps. a total quantity is calculated the stairs are reinforced with rebar Q257 | m3 |  | 4,05 |  |
| 3.2 | Fitting Q257 for stairs | kg |  | 243,00 |  |
| 3.3 | Making a plinth h=30cm, for a new expanded pool for the water from the spring. Dimensions of the new pool (overhead) 205cm x 255cm. Thickness of plinth 30 cm and height 30 cm. Reinforced with rebar Q257. | м3 |  | 0,60 |  |
| 3.4 | Q257 pool plinth fitting | kg |  | 36,00 |  |
| 3.5 | Making an ab slab on the upper part of the north side. Reinforced with Q257 rebar. P=86m2 d=12cm | м3 |  | 10,32 |  |
| 3.6 | Q257 rebar for north side slab upper part | kg |  | 619,20 |  |
| **TOTAL 3** | | | |  |  |
|  | **IV. MASONRY AND FLOOR WORK** |  |  |  |  |
| 4.1 | Coating with decorative stone on all surfaces. The decorative stone (stone slabs) is placed on wet plaster. On the stairs, on the floor slab, around the pool parapet and on the vertical wall above the pool, as well as on the cascades, on the upper part of the north side, all steps (heights and widths). | m² |  | 185,00 |  |
| 4.2 | Procurement, transportation and installation of an iron cover for a drainage channel d=20 cm | м1 |  | 4,50 |  |
| 4.3 | Procurement, transportation and installation of a fence made of metal box profiles, height of the fence h=90cm for the staircase leading from the northern entrance to the spring and along the ramp. | м1 |  | 20,00 |  |
| 4.4 | Addition to the height of part of the stone wall that encloses the site on the eastern side. A height of 60 cm is added, on both sides along part of the length of the existing wall with masonry stone and it is finished with the formation of a stone cap on top, as per the example of the existing condition. | м1 |  | 30,00 |  |
| 4.5 | Adjacent to a parapet protection wall made of stone h=60cm d=40cm, one-sided walling next to the stairs from the main entrance (south side) on the side of the rock, for protection against landslides, with the construction of a cap on top of stone slabs. | м2 |  | 5,00 |  |
| 4.6 | Adjacent to a parapet protection wall of stone h=60cm d=40cm one-sided masonry along the upper path of stone slabs on the side of the rock, for protection against landslides. Length 62 m, with the construction of a cap on top of stone slabs. | м3 |  | 5,00 |  |
| 4.7 | Placing a safety net with concrete weights in the shear of the slope of the rock on the upper part next to the stone path. Procurement, transportation, preparation and installation of a steel, double-twisted, galvanized mesh with a thickness of up to 3 mm, dimensions of openings 8x10 cm, interconnection of the meshes with "rings" placed at a distance of 20 cm and attached to the crown of the slope with steel anchors Ø25 mm, placed at a distance of 1.5 - 3.0 m, with length L = 0.5 - 1.0 m. Tensile strength of the web: 350 - 550 N/mm2 according to EN 10223-3 and tolerance of the web according to EN 10218. Tensioning with concrete weights in the shear of the slope made of concrete brand MB 30 and dimensions 30 x 30 x 10 cm, which are placed at a horizontal distance of 1.5 m. The hook of the concrete weights is a Ø12 mm steel bar. Anti-corrosion protection by galvanizing the network according to class A (class A) according to EN 10244-2. The position includes all necessary funds, material and labor. | м2 |  | 200,00 |  |
| 4.7 | Placing a steel cable for securing the protective net at the top of the slope. Packaging, transport and installation of steel cable Ø16 mm (UNI EN 12385-4), galvanized according to class B (class B) in accordance with UNI EN 10264-2. Securing the cable from the protective net is done with steel anchors with a diameter of Ø25 mm and length L = 3.0 m, placed at the ends of the net. This position includes anchors and grout and other equipment to secure the steel cable. The position includes all necessary funds, materials and labor. | м1 |  | 30,00 |  |
| 4.8 | Construction of a new cap of stone slabs on the first part of the wall on the side of the river, which is not adjacent. | м2 |  | 10,00 |  |
| 4.9 | Procurement, transport and installation of park benches with backrest | no. |  | 3,00 |  |
| 4.10 | Procurement, transport and installation of park baskets | no. |  | 3,00 |  |
| 4.11 | For water tap: Procurement, transport and installation of an automatic water pump with the following characteristics (Related power: 30W, Maximum flow rate: 5L/min, Wire length: 1.72m, Weight: 168g, Maximum lift: 10M) The pump is connected to electricity, placed in an additional small pool with h=0.6m, width 0.6m, which is placed inside the pool with the spring water. The pump is connected to a PPR pipe 1/2'' with thermal insulation, which ends with a tap with an opener, so that it can be started and turned off the water discharge. | lump sum |  | 1,00 |  |
| **TOTAL 4** | | | |  |  |
| 5 | **LIGHTING** |  |  |  |  |
| 5.1 | Excavation of holes for making foundations with dimensions 80x80x80 cm together with shoring and concreting with concrete MB 30, together with an anchor basket and a plastic pipe F 50 mm for pulling in cables | num. |  | 1,00 |  |
| 5.2 | Supply, delivery and installation of a lamp for street lighting, mounted on the top of the pole, type DISANO, 1570 CLIMA - LED 3000K CRI 70 13W CLD GRAPHITE or similar, with the same photometric characteristics. | num. |  | 1,00 |  |
| 5.3 | Procurement, delivery and installation of NYY-J 5x4 mm2 cable, placed in a suitable ribbed plastic hose for its mechanical protection. | м1 |  | 150,00 |  |
| 5.4 | Procurement, delivery and installation of lighting posts with a height of 100.45 cm Ф180, placed on the stone wall next to the rock, at a distance of no more than 4m. According to the scheme of the technical drawings. Complete with lamp, according to given specifications. | num. |  | 15,00 |  |
| 5.5 | Supply, delivery and installation of 51.5 cm high F180 lighting posts, placed on the stone wall next to the access stairs on the south side, on the sides of the spring and on the steps of the staircase leg on the north side, on every 4 steps. According to the scheme of the technical drawings, complete with lamp, respectively according to the given specifications. | num. |  | 18,00 |  |
| 5.6 | Procurement, delivery, installation and connection of the electrical installation of a steel decorative pole, with a height of H-5 m. The pole is two-segmented with smoke: Ø133 /thickness 4mm in the base part and a height of 4 m, and a finished part with a dimension of Ø88.9/ thickness 3.2 mm and height of 2 m. The color should be resistant to UV rays. Equipped with an IR 54 junction box for a maximum of three cables, insulation class II, with transparent cover, with DII/E14 fusible link, dimensions 274x90x74 mm and NYM cable 3x1.5 mm2. For the pillars, a static calculation for a wind speed of 130 km/h and a horizontal deflection of max. 45 mm should be submitted. 10 year warranty on poles against corrosion. | num. |  | 1,00 |  |
| 5.7 | Procurement, delivery, installation and connection of the electrical installation of reflectors, placed next to the existing stone wall at the lower level, at the drainage grid, which will be placed towards the source to illuminate it. | num. |  | 2,00 |  |
| 5.8 | Examination of the existing street lighting installation, locating the old power line and ground and connecting to the appropriate elements of the new power line and the ground for the candelabra. | lump sum |  | 1,00 |  |
| 5.9 | Installation of information boards with dimensions 1\*1.5m placed on metal profiles 50\*50mm buried in the ground in AB feet. | piece |  | 5,00 |  |
| **TOTAL 5** | | | |  |  |

*TOTAL RECAPITULAR Creating an open-air museum at spring of mineral water*

|  |  |  |
| --- | --- | --- |
|  | **POSITION** |  |
| 1 | PREPARATORY WORK |  |
| 2 | EARTHWORKS |  |
| 3 | CONCRETE AND REINFORCED CONCRETE WORKS |  |
| 4 | MASONRY AND FLOOR WORK |  |
| 5 | LIGHTING |  |
| **TOTAL** | |  |
| **18% VAT** | |  |
| **ALL TOTAL** | |  |

**LOT 2 - Reconstruction of accommodation facility in Spa Kezhovica and Creating an open-air museum at spring of mineral water**

|  |  |  |
| --- | --- | --- |
|  | **OBJECT** | **EUR** |
| 1 | Reconstruction of accommodation facility in Spa Kezhovica |  |
| 2 | Creating an open-air museum at spring of mineral water |  |
| **LOT 2 TOTAL** | |  |

| **Item** | **Description** | **Unit** | **Unit price** | **Firm quantities** | **Lump-sum price**  **[EUR] [local currency]** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  | - | - |  |
|  |  |  | - | - |  |
|  |  |  | - | - |  |
|  |  |  | - | - |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  | - |  |
|  |  |  |  | - |  |
|  |  |  |  | - |  |
|  |  |  |  | - |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **Total lump-sum price** |  |  |  |  |
|  |  |  |  |  |  |