***“Building the station of voluntary firefighters/rescuers”***

***in Sărata Galbenă village, Hîncesti district***

***List of works’ volume***

*Constructions - resistance*

|  |
| --- |
| Price offer value: **USD** |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nocrt. | Symbol of the norm and resource code | Works and expenses | U.M. | Quantity according to the design data | Estimate value, **USD**   |
| Per U.M.incl. salary | Total---incl. salary  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  |  | **1. Earthworks** **1.1 Digging**  |  |  |  |  |
| 1 | TsC03E1 | Mechanic digging with excavator of 0,40-0,70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, land cat. I | 100 m3 | 1,820 |  |  |
|  2 | TsI51A5 | Transportation of soil with the dumper of 10t at a distance of: 5 km | t | 236,600 |  |  |
|  3 | TsC03A2 | Mechanic digging with excavator of 0,40-0,70 m3, with internal combustion engine and hydraulic command, in clayish grounds, and unloading in the storage, ground cat I | 100 m3 | 2,990 |  |  |
|  4 | TsI51A1 | Transportation of soil with the dumper of 10 t at a distance of 1 km | t | 508,300 |  |  |
|  |  |  **Total Digging works**  |  | USD  |
|  |  | **1.2 Soil cushion**  |  |  |  |  |
| 5 |  | Sandy clay  | m3 | 198,500 |  |  |
|  6 | TsC03E1 | Mechanic digging with excavator of 0,40-0,70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, land cat. I | 100 m3 | 1,985 |  |  |
|  7 | TsI51A5 | Transportation of soil with the dumper of 10t at a distance of: 5 km | t | 337,500 |  |  |
|  8 | TsD32A | Executing the earth pillows on settled grounds through stratified rolling of the soil with the roller  | 100 m3 | 2,480 |  |  |
|  |  | **Total Soil cushion**  |  | USD  |
|  |  | **1.3 Fillings under the flooring**  |  |  |  |  |
| 9 | TsC35A11 | Transport for excavation with frontal loader, for loading distances in motor vehicle with frontal loader on tracks of 0.5 to 0.99 m3, soil form land field of category 1, at distances of 11-20 m  | 100 m3 | 1.650 |  |  |
|  10 | TsD01C | Spreading with the shovel of light earth in uniform layers, 10-30 cm thick, with a throw of up to 3 m of piles , including smashing of earth bolls from hard ground | m3 | 165.000 |  |  |
|  11 | TsD05B | Compacting with the mechanical knocker of 150-200 kg filling in the successive layers of 20-30 cm thickness, excluding the watering of every layer separately, the earth fillings being executed from cohesive soil  | 100 m3 | 1.650 |  |  |
|  |  | **Total Fillings under the flooring**  |  | USD  |
|  |  | **1.4 Filling the drums**  |  |  |  |  |
| 12 | TsC35A11 | Transport for excavation with frontal loader, for loading distances in motor vehicle with frontal loader on tracks of 0.5 to 0.99 m3, soil form land field of category 1, at distances of 11-20 m  | 100 m3 | 0,664 |  |  |
|  13 | TsD01C | Spreading with the shovel of light earth in uniform layers, 10-30 cm thick, with a throw of up to 3 m of piles , including smashing of earth bolls from hard ground | m3 | 66,400 |  |  |
|  14 | TsD05B | Compacting with the mechanical knocker of 150-200 kg filling in the successive layers of 20-30 cm thickness, excluding the watering of every layer separately, the earth fillings being executed from cohesive soil  | 100 m3 | 0,664 |  |  |
|  15 | TsC18B1 | Mechanic digging with bulldozer on the crawler 65-80 HP, including the pushing of the ground up to 10m, in fields of category 2 (embankment on the perimeter)  | 100 m3 | 0,180 |  |  |
|  16 | TsC22B1 | Increase in consumption of hour-equipment from items TsC18, TsC19, TsC20 and TsC21, for transportation of soil per each additional 10 m, over the distance provided in the respective items TSC18B1, ground category II  | 100 m3 | 0,180 |  |  |
|  |  | **Total Filling the drums**  |  | USD  |
|  |  | **Total Earthworks**  |  | USD  |
|  |  | **2. Foundations** **2.1 Insulated foundations Fml (9 pieces)** |  |  |  |  |
| 17 | CB03A | Reusable formwork panels with pavement of 15 mm for pouring the concrete in bearings, foundations and foundations glass and foundation equipment including support | m2 | 28.100 |  |  |
|  18 | CC01D1 | Concrete steel fittings PC 52 shaped in construction shops, assembled with bars over 8 mm diameter inclusively in insulated foundations  | kg | 214.500 |  |  |
|  19 | CC01C | Concrete steel fittings OB 37 shaped in construction shops, assembled with bars over 8 mm diameter inclusively in insulated foundations  | kg | 38.340 |  |  |
|  20 | CL57A | Mounting and fixing the pieces embedded in monolith reinforced concrete: with weight under 4 kg / Piece M1; Pin 7 M20 l=900 | kg | 79.920 |  |  |
|  21 | TsC54C | Leveling layer made of local gravel h=100mm  | m3 | 1.800 |  |  |
|  22 | CA03G | Reinforced concrete, poured with classical means, in foundations, basements, support walls, under zero - share walls, manufactured with concrete making unit or concrete commodity, poured with classical means, reinforced concrete class C15  | m3 | 5.400 |  |  |
|  |  | **Total Insulated foundations** |  | USD  |
|  |  | **2.2. Foundation beams**  |  |  |  |  |
| 23 | CB03B | Formwork of reusable panels, with plywood of 15mm for pouring concrete in elevations, straight walls up to 6 m high inclusively, supporters being included | m2 | 75.000 |  |  |
|  24 | CC01E | Concrete steel fittings OB 37 shaped in construction shops, assembled with bars up to 8 mm diameter inclusively in continuous and radiation foundations  | kg | 169.660 |  |  |
|  25 | CC01F1 | Concrete steel fittings PC 52 shaped in construction shops, assembled with bars over 8 mm diameter inclusively in continuous and radiation foundations  | kg | 394.440 |  |  |
|  26 | TsC54C | Leveling layer made of local gravel h=100mm  | m3 | 1.800 |  |  |
|  27 | CA03G | Reinforced concrete poured with classical means, in foundations, basements, support walls, under zero - share walls, manufactured with concrete making unit or concrete commodity according to art. CA01, poured with classical means, reinforced concrete class C15  | m3 | 14.400 |  |  |
|  |  | **Total. Foundation beams**  |  | USD  |
|  |  | **Total Foundations** |  | USD  |
|  |  | **3. Metallic carcass**  |  |  |  |  |
| 28 | RpCU05C1 | Executing the perforation for the pipes or ties in the walls or slabs of stone or reinforced concrete up to 15 cm thickness, for performing the perforation in a mechanized way | pcs | 44.000 |  |  |
|  29 | CK35B | Metal dowels fixed in reinforced concrete walls / Anchor 16x120 (diam. of bolt 12 mm, diam. of metal dowel ф16, length of anchor = 120 mm) Item no. 074018 trademark "ICB" or analogous | pcs | 44.000 |  |  |
|  30 | RpCU07C | Caulking the holes in the plates with cement-lime mortar, after installations  | pcs | 44.000 |  |  |
|  31 | CL01A | Ready-made steel pillars, delivered fully assembled, mounted at heights up to 35 m, having up to 1t inclusively | t | 1.451 |  |  |
|  32 | CL04D | Ready-made steel beams with full squares, delivered in sections, assembled through welding, mounted at heights up to 35 m, having up to 1t inclusively  | t | 1.598 |  |  |
|  33 | CL10D | Bracings supplied in ready-made subset, for heights of up to 35 m, weighing between 0.151-1,500 tons, assembled by welding / Vertical bracings on pillars  | t | 0.326 |  |  |
|  34 | CL10D | Bracings supplied in ready-made subset, for heights of up to 35 m, weighing between 0.151-1,500 tons, assembled by welding / Bracings on the roof  | t | 1.570 |  |  |
|  35 | CL13B | Metallic blades from cold-made profiles of steel strip, ready-made , mounted on metallic beams, in constructions with the ridge height up to 10m, having the weight per piece between 0.1-0.2 t inclusively / roof blades  | t | 1.979 |  |  |
|  36 | CL13A | Metallic blades from cold-made profiles of steel strip, ready-made , mounted on metallic beams, in constructions with the ridge height up to 10m, having the weight per piece up to 0.1 t inclusively / wall blades  | t | 1.223 |  |  |
|  37 | IzD10C | Anticorrosive painting with the manual brush of the metallic constructions with one layer of anti-corrosive primer GF-21 and two layers of enamel PF-115  | t | 8.149 |  |  |
|  |  | **Total Metallic carcase**  |  | USD  |
|  |  | **Total**  |  | USD  |
|  |  | *Total Direct costs* |  USD  |  |
|  |  | *Social and health fund*  | % |  |
|  |  | *Transportation* | % |  |
|  |  | *Total* |   |  |
|  |  | *Overhead costs* | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimate benefit* | % |  |
|  |  | **Total**  |  USD  |  |
|  |  | ***Total without VAT: USD***  |

Note: *The bidder’s costs will include all the expenses including: materials and/or equipment, salaries, social payments, indirect costs*

|  |
| --- |
| Bidder  |
| (position, signature, name, surname)  |

 STAMP PLACE

***Bill of Quantities***

*Architectural solutions*

|  |
| --- |
| Price offer value: USD |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Barrier Bp-1** |  |  |  |  |
| 1 | RpCU05F1 | Executing the perforations for pipes or coupling bars in walls or platforms of stone or reinforced concrete of 16 - 25 cm, for mechanized execution of perforations   | piece | 8,000 |  |  |
|  2 | CK35B | Metal dowels fixed in reinforced concrete walls / Metal anchor M12 16x250mm | piece | 8,000 |  |  |
|  3 | RpCU07C | Caulking the gaps in platforms with cement mortar, after performing the installations  | piece | 8,000 |  |  |
|  4 | CL17B | Various metal constructions, mounted apparently: handrail, grills, hatches, snow catchers, grids  | kg | 72,320 |  |  |
|  5 | IzD10C | Anticorrosive painting of metal constructions with handheld brush, with a layer of ГФ-21 anticorrosive primer and two layers of ПФ-115 enamel  | t | 0,072 |  |  |
|  |  | **Total Barrier**  |  | USD |
|  |  | **2. Roof**  |  |  |  |  |
| 6 | CE44A | Envelopes of light panels of profiled tin with thermal insulation, of the "Sandwich" type, mounted on metal laths. / PUR roofing Sandwich panels, p=40kg/m3 d=100mm, 0.5mm external galvanized tin, painted in electrostatic field with 60um RAL 9006 polyester paint; 0.4 mm inferior galvanized tin, painted in electrostatic field with 6060um RAL 9006 polyester paint, inclusive: joining element between roof/wall (external roof valley 12.4ml), joining element between roof /parapet (38.4ml), parapet closure element with dropper (37.5ml) | m2 | 152,000 |  |  |
|  7 | CE20A | Snow dividing systems of 0.5mm RAL 7016 (anthracite) galvanized tin l=1.50 m (16 pcs.) | m | 24,000 |  |  |
|  8 | CE20A | Systems of brass types gutters of 0.5mm galvanized tin, with d.100 mm RAL 7016 (anthracite) polyester paint  | m | 24,400 |  |  |
|  9 | CE22A | Systems of brass types drainpipes of 0.5mm galvanized tin, with d.160 mm RAL 7016 (anthracite) polyester paint | m | 16,400 |  |  |
|  10 | RpCI30A | Additional sealing, on the contour, of the joints and perforations in terraces or facades, with polymeric lutes or mastics  | m | 72,000 |  |  |
|  |  | **Total Roof**  |  | USD |
|  |  | **3. Drainage pit**  |  |  |  |  |
| 11 | CB03B | Casings from reusable panels, with 15 mm paneling for pouring the concrete in elevations, straight walls up to 6 m inclusive, including supports  | m2 | 11,500 |  |  |
|  12 | CC03A | Mounting of welded meshes at heights less or equal to 35 m, on walls and diaphragms, with the mesh weight of up to 3 kg/m2 / Bp-1 5x100x100 welded mesh | kg | 88,930 |  |  |
|  13 | CA03E2 | Concrete poured in foundations, basements, retention walls, walls under reference level, prepared with the mixer on site and poured with classic means, reinforced concrete of the M250 class  | m3 | 2,200 |  |  |
|  14 | CL17B | Various metal constructions, mounted apparently: handrail, grills, hatches, snow catchers, grids  | kg | 154,040 |  |  |
|  15 | IzD10C | Anticorrosive painting of metal constructions with handheld brush, with a layer of ГФ-21 anticorrosive primer and two layers of ПФ-115 enamel  | t | 0,154 |  |  |
|  16 | IzD10A | Anticorrosive painting of metal items and constructions with handheld brush, with a layer of lead minimum based anticorrosive primer and two layers of parlon enamel, on metal items and constructions made of profiles with the thickness between 8 mm and 12 mm inclusive  | t | 0,154 |  |  |
|  |  | **Total Drainage pit**  |  | USD |
|  |  | **4. Hydro-insulations under the walls**  |  |  |  |  |
| 17 | IzF04B | Hot-executed hydro-insulating layer in terraces, roofs or foundations and foundation plates, in lands without phreatic waters, including soffits and roof valleys from the current hydro-insulation, on horizontal or inclined up to 40 % areas, flat or curved, with bituminous board, glued on the entire area with bituminous mastic  | m2 | 28,500 |  |  |
|  |  | **Total Hydro-insulations under the walls** |  | USD |
|  |  | **5. Sandwich walls**  |  |  |  |  |
| 18 | CD73A | Walls of light panels of profiled tin with thermal insulation, of the "Sandwich" type, mounted on metal laths or of reinforced concrete at heights below 12 m: placed in front of the laths. / Roofing Sandwich panels with PUR insulation, p=40kg/m3 d=100mm, 0.5mm external galvanized tin painted in electrostatic field with 60 um RAL 9006 polyester paint, 0.5mm inferior galvanized tin painted in electrostatic field with 6060um RAL 9006 polyester paint, inclusive: closure element between walls and rain shadow outside (24ml) / inside (70.6ml), dropper of profiled tin at the junction between the basement and the walls (49.6ml), closure element of the doors and windows framing inside (82.5ml) outside (51.2ml) | m2 | 280,800 |  |  |
|  19 | RCsB30I | Drilling the penetrating holes in concrete constructions of the mark up to 500, using the diamond-core drilling machine with the diameter of: 100 mm | piece | 1,000 |  |  |
|  20 | RCsB30S | Drilling the penetrating holes in concrete constructions of the mark up to 500, using the diamond-core drilling machine with the diameter of: 200 mm | piece | 2,000 |  |  |
|  |  | **Total Sandwich walls**  |  | USD |
|  |  | **6. Decorative elements**  |  |  |  |  |
| 21 | CB14A | Tubular metal access board for works on vertical areas at heights of up to 30 m inclusive, with the immobilization of the access board during 25 days (200 hours) | m2 | 71,700 |  |  |
|  22 | CL53A | Mounting the system of ventilated façade with plating the walls of the buildings and constructions with linear metal panels placed horizontally with hidden fixing, with the area of the architectural details up to 30 % of the total area of the walls. / Decorative closure element at the doors and windows framing 82.5 ml | m2 | 45,380 |  |  |
|  23 | CL53A | Mounting the system of ventilated façade with plating the walls of the buildings and constructions with linear metal panels placed horizontally with hidden fixing, with the area of the architectural details up to 30 % of the total area of the walls. / Decorative closure element at the parapet level 37.5 ml | m2 | 13,130 |  |  |
|  24 | CL53A | Mounting the system of ventilated façade with plating the walls of the buildings and constructions with linear metal panels placed horizontally with hidden fixing, with the area of the architectural details up to 30 % of the total area of the walls. / Decorative corner element at the joining of the wall panels 24ml | m2 | 13,200 |  |  |
|  |  | **Total Decorative elements**  |  | USD |
|  |  | **7. Basement** |  |  |  |  |
| 25 | IzF01B | Priming the surfaces for the application of the diffusion later, of the barrier against steam, thermal insulation or hydro-insulation on horizontal, inclined or vertical surfaces, with AquaMast or analogical bitum primer, in one layer  | m2 | 55,100 |  |  |
|  26 | IzF31A | Hydro-insulation of concrete surfaces (vertical, horizontal, including ceilings) with AquaMast or analogical bituminous mastic mix - 2 layers: smooth surface  | m2 | 55,100 |  |  |
|  27 | CI22A | Paneling of ceramic tiles (on walls, pillars, pilasters and jambs) fixed on glue (dry mix), tile dimensions: up to 100 x 100 mm / Gray clinker  | m2 | 5,500 |  |  |
|  28 | CK26B | Support profile with drip edge  | m | 45,600 |  |  |
|  |  | **Total Basement**  |  | USD |
|  |  | **8 Carpentry items** **8.1 Doors**  |  |  |  |  |
| 29 | CK24A | Rolling shutters of plastic profiles, including the necessary accessories and guiding rails / U1 Gate 4000x4000 mm with opening in two directions with embedded glasswork h=600mm with ventilation grills 400x400 in the door  | m2 | 16,000 |  |  |
| 30 | CK25A | Doors made of plastic profiles, including rebars and accessories necessary for the doors mounted in masonry of any type, in constructions with the height up to 35 m inclusive, in one fold, with the casing area up to 7 m2 inclusive / U1 ext. 900x2400(h) -1 piece; U3 900x2100(h) -4 pcs.; U4 800x2100(h) -2 pcs.; U5 600x2100(h) -2 pcs. | m2 | 15,600 |  |  |
|  |  | **Total Doors**  |  | USD |
|  |  | **8.2 Windows**  |  |  |  |  |
| 31 | CK57F | Installation of PVC windows: swing-out, with the frame area above 2 m2, in two folds / Window of unrecycled PVC with low emission of harmful substances, with four chambers and thermal bridge in two glass layers (4-16-4)mm Low-e, reinforced profile of the "U" type with the thickness of at least 1.2 mm, U value < 1.7 W/m2K, mounted in compliance with CP C04.08:2015, Enameled Anthracite / F1 3000x1500(h) -1 piece | m2 | 4,500 |  |  |
| 32 | CK57H | Installation of PVC windows: swing-out, with the frame area above 2 m2, in three folds, including in the presence of fixed window frames / Window of unrecycled PVC with low emission of harmful substances, with four chambers and thermal bridge in two glass layers (4-16-4)mm Low-e, reinforced profile of the "U" type with the thickness of at least 1.2 mm, U value < 1.7 W/m2K, mounted in compliance with CP C04.08:2015, Enameled Anthracite / F2 2000x1500(h) -1 piece  | m2 | 3,000 |  |  |
| 33 | CK57C | Installation of PVC windows: swing-out, with the frame area above 2 m2, in one fold / Window of unrecycled PVC with low emission of harmful substances, with four chambers and thermal bridge in two glass layers (4-16-4)mm Low-e, reinforced profile of the "U" type with the thickness of at least 1.2 mm, U value < 1.7 W/m2K, mounted in compliance with CP C04.08:2015, Enameled Anthracite / F3 1000x1500(h) -1 piece; F5 600x1500(h) -1 piece  | m2 | 2,400 |  |  |
| 34 | CK57G | Installation of PVC windows: swing-out, with the frame area above 2 m2, in three folds, including in the presence of fixed window frames / Window of unrecycled PVC with low emission of harmful substances, with four chambers and thermal bridge in two glass layers (4-16-4)mm Low-e, reinforced profile of the "U" type with the thickness of at least 1.2 mm, U value < 1.7 W/m2K, mounted in compliance with CP C04. 08:2015, Enameled Anthracite / F4 1500x600(h) -1 piece | m2 | 0,900 |  |  |
| 35 | CK57F | Installation of PVC windows: swing-out, with the frame area above 2 m2, in two folds/ Window of unrecycled PVC with low emission of harmful substances, with four chambers and thermal bridge in two glass layers (4-16-4)mm Low-e, reinforced profile of the "U" type with the thickness of at least 1.2 mm, U value < 1.7 W/m2K, mounted in compliance with CP C04.08 :2015, Enameled Anthracite / F6 4000x1500(h) -2 pcs. | m2 | 12,000 |  |  |
| 36 | CK26B | Jambs mounted at windows, of zinc-coated tin varnished with RAL 7016 (anthracite) polymeric paint  | m | 16,400 |  |  |
| 37 | CK26C | Sills mounted at windows or doors, of plastic  | m | 16,400 |  |  |
|  |  | **Total Windows**  |  | USD |
|  |  | **Total Carpentry items**  |  | USD |
|  |  | **9. Internal finishing** **9.1 Walls** **9.1.1IF 1** |  |  |  |  |
| 38 | CD72J | Flat partition walls of PGC with the thickness of 125 mm on simple metal frame with 12.5mm PGC paneling in two layers, insulated on both sides with mineral wool insulation with the thickness of 50 mm, with the height above 4 m  | m2 | 66,780 |  |  |
| 39 | CN54A | Manual application of the deep penetrating primer in one layer, on internal walls and ceilings  | m2 | 133,550 |  |  |
| 40 | CF17C | Various works – felting layer of 80gr/m2 glass fiber applied on the surface of the precast elements of b.c.a. glued with binding agent, including the priming layer  | m2 | 133,550 |  |  |
| 41 | CF50A | Interior plastering with the thickness of 5 mm, performed manually, with plaster based dry mix, on walls and partition walls, mechanic preparation of the mortar. | m2 | 133,550 |  |  |
| 42 | CF51A | Interior plastering with the thickness of 5 mm, performed manually, with plaster based dry mix, on walls and partition walls, mechanic preparation of the mortar. The plus or minus difference for each 1.0 mm (shall be added or subtracted to/from art. CF50) / k=2 for the final thickness of 3mm | m2 | -133,550 |  |  |
| 43 | CF57A | Manual application of the "Eurofin" plaster based putty, thickness of 1.0 mm, on the surfaces of walls, columns and ceilings  | m2 | 133,550 |  |  |
| 44 | CF56A | Manual application of the "Mesterul Manole" putty for internal works, thickness of 0.5 mm, on the surfaces of walls, columns and ceilings  | m2 | 133,550 |  |  |
| 45 | CN53A | Priming the internal surfaces of the walls and ceilings  | m2 | 133,550 |  |  |
| 46 | CN06A | Internal painting with RAL 9010 high-resistance paint with acryl-polymer emulsion, applied in 2 layers on the existing polishing plaster coat, performed manually  | m2 | 133,550 |  |  |
|  |  | **Total IF 1** |  | USD |
|  |  | **9.1.2. IF-2** |  |  |  |  |
| 47 | CD72J | Flat partition walls of moisture-proof PGC with the thickness of 125 mm on simple metal frame with 12.5mm PGC paneling in two layers, insulated on both sides with mineral wool insulation with the thickness of 50 mm, with the height above 4 m  | m2 | 11,450 |  |  |
| 48  | CN54A | Manual application of the deep penetrating primer in one layer, on internal walls and ceilings  | m2 | 22,900 |  |  |
| 49 | CF17C | Various works – felting layer of 80gr/m2 glass fiber applied on the surface of the precast elements of b.c.a. glued with binding agent, including the priming layer  | m2 | 22,900 |  |  |
| 50 | CF50A | Interior plastering with the thickness of 5 mm, performed manually, with plaster based dry mix, on walls and partition walls, mechanic preparation of the mortar. | m2 | 22,900 |  |  |
| 51 | CF51A | Interior plastering with the thickness of 5 mm, performed manually, with plaster based dry mix, on walls and partition walls, mechanic preparation of the mortar. The plus or minus difference for each 1.0 mm (shall be added or subtracted to/from art. CF50) / k=2 for the final thickness of 3mm | m2 | 22,900 |  |  |
| 52 | CF57A | Manual application of the cement based putty, thickness of 1.0 mm, on the surfaces of walls, columns and ceilings  | m2 | 22,900 |  |  |
| 53 | CN53A | Priming the internal surfaces of the walls and ceilings  | m2 | 22,900 |  |  |
| 54 | CI22B | Paneling of ceramic tiles (on walls, pillars, pilasters and jambs) fixed on glue (dry mix), tile dimensions: up to 200 x 200 mm  | m2 | 22,900 |  |  |
|  |  | **Total IF 2** |  | USD |
|  |  | **Total Walls**  |  | USD |
|  |  | **9.2 Flooring** **9.2.1 P1** |  |  |  |  |
| 55 | TsC54C | Foundation layer of gravel h=100mm | m3 | 4,292 |  |  |
| 56 | CC03C | Mounting welded meshes at heights lower or equal to 35 m, on panels / Welded mesh of 6x200x200 (2.22 kg/m2) | kg | 95,280 |  |  |
| 57 | CA02C | Simple concrete poured in leveling, slopes, blankets, at heights of up to 35 m inclusive, prepared with the rotary concrete mixer according to art. CA01 or supplied ready to use, pouring with classical means, B12.5 | m3 | 4,292 |  |  |
| 58 | IzF53A | Manual execution of the flooring support with thermal insulation layer of extruded plates of foamed polystyrene, thickness of 50 mm D=40kg/m3, in one layer  | m2 | 42,920 |  |  |
| 59 | CE17A | Additional polymer layer of the ondutiss type, mounted under the brick envelope layer, corrugated or imprinted plates  | m2 | 49,890 |  |  |
| 60 | CG01A | Support layer for flooring made of M 100-T cement mortar with the thickness of 3 cm, with finely floated front surface  | m2 | 42,920 |  |  |
| 61 | CG01A1 | Support layer for flooring made of M 100-T cement mortar with the thickness of 3 cm, with finely floated front surface. The plus or minus difference for each 0.5 cm of support later of M 100-T mortar shall be added or subtracted / k=2 for the thickness of 40mm  | m2 | 42,920 |  |  |
| 62 | CG47B | Flooring of glazed stoneware tiles, including the support layer of cement based adhesives, tile dimensions: up to 200 x 200 mm | m2 | 42,920 |  |  |
| 63 | CI14A | Linear elements of glazed stoneware tiles applied with adhesive h=100 | m | 46,440 |  |  |
|  |  | **Total P 1** |  | USD |
|  |  | **9.2.2 P 2** |  |  |  |  |
| 64 | TsC54C | Foundation layer of gravel h=100mm | m3 | 2,564 |  |  |
| 65 | CC03C | Mounting welded meshes at heights lower or equal to 35 m, on panels / Welded mesh of 6x200x200 (2.22 kg/m2) | kg | 56,920 |  |  |
| 66 | CA02C | Simple concrete poured in leveling, slopes, blankets, at heights of up to 35 m inclusive, prepared with the rotary concrete mixer according to art. CA01 or supplied ready to use, pouring with classical means, B12.5 | m3 | 2,564 |  |  |
| 67 | IzF53A | Manual execution of the flooring support with thermal insulation layer of extruded plates of foamed polystyrene, thickness of 50 mm D=40kg/m3, in one layer  | m2 | 25,640 |  |  |
| 68 | CE17A | Additional polymer layer of the ondutiss type, mounted under the brick envelope layer, corrugated or imprinted plates | m2 | 31,640 |  |  |
| 69 | CG01A | Support layer for flooring made of M 100-T cement mortar with the thickness of 3 cm, with finely floated front surface  | m2 | 25,640 |  |  |
| 70 | CG01A1 | Support layer for flooring made of M 100-T cement mortar with the thickness of 3 cm, with finely floated front surface. The plus or minus difference for each 0.5 cm of support later of M 100-T mortar shall be added or subtracted / k=2 for the thickness of 40mm  | m2 | 25,640 |  |  |
| 71 | IzF04A | Hot-executed hydro-insulating layer in terraces, roofs or foundations and foundation plates, in lands without phreatic waters, including soffits and roof valleys from the current hydro-insulation, on horizontal or inclined up to 40 % areas, flat or curved, with bituminous mastic applied with the brush or with the rubber capping plate  | m2 | 31,640 |  |  |
| 72 | CG47B | Flooring of glazed stoneware tiles, including the support layer of cement based adhesives, tile dimensions: up to 200 x 200 mm  | m2 | 25,640 |  |  |
| 73 | CI14A | Linear elements of glazed stoneware tiles applied with adhesive h=100 | m | 40,020 |  |  |
|  |  | **Total P 2** |  | USD |
|  |  | **9.2.3 P 3** |  |  |  |  |
| 74 | TsC54C | Foundation layer of gravel h=100mm | m3 | 7,532 |  |  |
| 75 | CA02C | Simple concrete poured in leveling, slopes, blankets, at heights of up to 35 m inclusive, prepared with the rotary concrete mixer according to art. CA01 or supplied ready to use, pouring with classical means, B12.5 h=100mm | m3 | 7,532 |  |  |
| 76 | CE17A | Additional polymer layer of the ondutiss type, mounted under the brick envelope layer, corrugated or imprinted plates | m2 | 80,590 |  |  |
| 77 | CG48A | Floorings of reinforced concrete with consolidated upper layer, thickness of 20 cm. with 2 welded meshes 8x200x200 (3.95kg/m2 for one mesh) B20 Concrete | m2 | 75,320 |  |  |
| 78 | CG48A1 | Corrections: added or subtracted if the thickness changes by 10 mm / k=16 for the thickness of 4cm | m2 | -75,320 |  |  |
| 79 | CI14A | Linear elements of glazed stoneware tiles applied with adhesive h=100 | m | 35,110 |  |  |
|  |  | **Total P 3** |  | USD |
|  |  | **Total Flooring** |  | USD |
|  |  | **Total Interior finishing**  |  | USD |
|  |  | **Total P 2** |  | USD |
|  |  | **10. Ventilation channel**  |  |  |  |  |
| 80 | RpCU05F1 | Executing the perforations for pipes or coupling bars in walls or platforms of stone or reinforced concrete of 16 - 25 cm, for mechanized execution of perforations  | piece | 10,000 |  |  |
| 81 | CK35B | Metal dowels fixed in reinforced concrete walls / Anchor M8 L200 with nuts  | piece | 10,000 |  |  |
| 82 | RpCU07C | Caulking the gaps in platforms with cement mortar, after performing the installations  | piece | 10,000 |  |  |
| 83 | CL18A | Various metal items of laminated profiles, tin, corrugated tin, concrete steel, pipes for supports or coverages, total or partially embedded in concrete  | kg | 25,010 |  |  |
| 84 | RpCE22A | Sealing the joints on the contour of the exterior carpentry items on the façade with mineral wool and "Romalchid" putty  | m | 1,600 |  |  |
| 85 | CE05B | Envelopes of zinc-coated flat tin or flat tin with anticorrosive protection, fixed with clips, made with double joints in both directions, made on surfaces larger than 40 m2 with 0.5 mm thick tin sheets, including the execution of roof valleys, aprons, connection to chimneys, etc. | m2 | 0,550 |  |  |
|  |  | **Total Ventilation channel**  |  | USD |
|  |  | **Total (1+2+3+4+5+6+7+8+9+10)** |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total**  |  |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

|  |
| --- |
| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***List of works’ volume***

*Internal water supply and sewerage networks*

|  |
| --- |
| Price offer value: **USD** |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nocrt. | Symbol of the norm and resource code | Works and expenses | U.M. | Quantity according to the design data | Estimate value, **USD**   |
| Per U.M.incl. salary | Total---incl. salary  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  |  | 1. **Technical-sanitary works**

**1.1. Aqueduct A1**  |  |  |  |  |
| 1 | SA22B | Plastic pipe joined by electro-fusion welding, in distribution pipes in dwelling and social-cultural buildings, having the diam. of 32 mm / Polyethylene pipe SDR17; PN10; ф(ext) 32mm; ф(int) 25mm | m | 5,000 |  |  |
|  2 | SA20B | Plastic pipe joined by electro-fusion welding, in pipes ensuring the connection with sanitary objects, in dwelling and social-cultural buildings, having the diameter of 25 mm / Polyethylene pipe SDR17; PN10; ф(ext) 25mm; ф(int) 20mm | m | 8,000 |  |  |
|  3 | SA20A | Plastic pipe joined by electro-fusion welding, in pipes ensuring the connection with sanitary objects, in dwelling and social-cultural buildings, having the diameter of 20 mm / Polyethylene pipe SDR17; PN10; ф(ext) 20mm; ф(int) 15mm | m | 30,000 |  |  |
|  4 | SF01C | Performing the sealing pressure test for the installation of hot or cold water, executed on the hard-type polyvinyl chloride pipes, having the diameter of 16-110 mm | m | 43,000 |  |  |
|  5 | SF02C | Operational test for cold water installation performed with the pipe from hard-type polyvinyl chloride or plastic, having the diameter of 16-110 mm | 10 m | 4,300 |  |  |
|  6 | SF05C | Washing up the hot and cold water installation, executed from plastic pipes, with the d. of 20-75 mm | m | 43,000 |  |  |
|  7 | RpIF09B | Insulating the pipes with special insulation collars, introduced on the pipes, with diam. width from D12 x9 to D=54x9 mm / Heat insulating hose ф32mm | m | 5,000 |  |  |
|  8 | RpIF09B | Insulating the pipes with special insulation collars, introduced on the pipes, with diam. width from D= 12x9 to D=54x9 mm / Heat insulating hose ф25mm | m | 8,000 |  |  |
|  9 | RpIF09B | Insulating the pipes with special insulation collars, introduced on the pipes, with diam. width from D= 12x9 to D=54x9 mm / Heat insulating hose ф20mm | m | 25,000 |  |  |
|  10 | SD19B | Taps with retainer with threaded sleeves, having the diameter of 1" / Bronze valve tap ф25mm | pcs | 1,000 |  |  |
|  11 | SD19A | Taps with retainer with threaded sleeves, having the diameter of 1/2" - 3/4” / Bronze valve tap ф20mm  | pcs | 3,000 |  |  |
|  12 | SD19A | Taps with retainer with threaded sleeves, having the diameter of 1/2" - 3/4” / Bronze valve tap ф15mm  | pcs | 3,000 |  |  |
|  13 | RpSD20A | Mounting the control valve, corner or plain type, assembled before the fittings at the sanitary objects, having the diameter 15mm  | pcs | 7,000 |  |  |
|  14 | Market price  | Bend with fixed element 20 x 1/2”  | pcs | 12,000 |  |  |
|  15 | SB30A | Supporters to support the tubes and the joining elements for sewerage, with the weight up to 2 kg  | kg | 5,000 |  |  |
| 16 | AcA07A | Mounting in the ground, from outside of the building of tube PVC type 4(G) or 3(M), diam. 25-90 mm / (protection PE80 diam. 63mm) | m | 3,000 |  |  |
|  |  | **Total Aqueduct A1** |  | USD  |
|  |  | **1.2. Sewerage**  |  |  |  |  |
| 17 | SB08E | Plastic sewer pipe, combined with rubber case, surface-mounted or buried under the floor, having a diameter of 110 mm | m | 25,000 |  |  |
|  18 | SB08C | Plastic sewer pipe , combined with rubber case, surface-mounted or buried under the floor d. 50 mm | m | 11,000 |  |  |
|  19 | SF04B | Performing the leak test and operation of sewerage pipes made of cast iron pipes for drain, polyvinyl chloride and non-plasticized tubes of light type or plastic, the iron pipe having a diameter over 100 mm  | 10 m | 2,500 |  |  |
|  20 | SF04A | Performing the leak test and operation of sewerage pipes made of cast iron pipes for drain, polyvinyl chloride and non-plasticized tubes of light type or plastic, the iron pipe diam. up to 100 mm inclusively  | 10 m | 1,100 |  |  |
|  21 | SA37I | Bracelet for fixing the pipes for water and gas supply, from steel or PVC, flush mounted through ducts having the diameter of 4" / Metal clamp with rubber and dowel (set) dn110 | pcs | 9,000 |  |  |
|  22 | SA37F | Bracelet for fixing the pipes for water and gas supply, from steel or PVC, flush mounted through ducts having the diameter of 2" / Metal clamp with rubber and dowel (set) dn 50  | pcs | 5,000 |  |  |
|  23 | SB09E | The linking piece from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / Cleaning piece d.110 mm | pcs | 1,000 |  |  |
|  24 | SB09E | The linking piece from plastic for sewerage, combin. with rubber case, diam.110 mm / Revision d.100 mm | pcs | 1,000 |  |  |
|  25 | SB09C | The connecting piece from plastic for sewerage, combined with rubber case, having a diameter of 50 mm / Airing clack valve d.50mm  | pcs | 1,000 |  |  |
|  26 | SB09E | The linking piece from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / Airing clack valve d.100mm  | pcs | 1,000 |  |  |
|  27 | SB09E | The connecting piece from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC bend dn 110x90\* | pcs | 4,000 |  |  |
|  28 | SB09E | The connecting piece from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC bend dn 110x45\* | pcs | 1,000 |  |  |
|  29 | SB11C | The connecting piece (double branching) from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / Cross-type PVC branching dn 110/110x90\*  | pcs | 1,000 |  |  |
|  30 | SB11C | The connecting piece (double branching) from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC branching dn 110/110x90\*  | pcs | 1,000 |  |  |
|  31 | SB11C | The connecting piece (double branching) from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC branching dn 110/110x45\*  | pcs | 2,000 |  |  |
|  32 | SB11C | The connecting piece (double branching) from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC branching dn 110/50x45\*  | pcs | 2,000 |  |  |
|  33 | SB09C | The connecting piece from plastic for sewerage, combined with rubber case, having a diameter of 50 mm / PVC bend dn 50x90\* | pcs | 3,000 |  |  |
|  34 | SB09C | The connecting piece from plastic for sewerage, combined with rubber case, having a diameter of 50 mm / PVC bend dn 50x45\* | pcs | 3,000 |  |  |
|  35 | SB10C | The linking piece from plastic (simple branching) for sewerage, combined with rubber case, having a diameter of 50 mm / PVC branching dn 50/50x90\* | pcs | 1,000 |  |  |
|  36 | SB10C | The linking piece from plastic (simple branching) for sewerage, combined with rubber case, having a diameter of 50 mm / PVC branching dn 50/50x45\* | pcs | 1,000 |  |  |
|  37 | SB09E | The linking piece from plastic for sewerage, combined with rubber case, having a diameter of 110 mm / PVC reduction joint dn 110/50 | pcs | 1,000 |  |  |
|  38 | SB30A | Supporters to support the tubes and the joining elements for sewerage, with the weight up to 2 kg  | kg | 10,000 |  |  |
|  |  |  **Total Sewerage** |  | USD  |
|  |  | **1.3. Sanitary equipment**  |  |  |  |  |
|  39 | SC04C | Sink from sanitary semi-porcelain or porcelain, etc. including for disabled people, with the sewerage pipe of plastic material, mounted on a stand  | pcs | 3.000 |  |  |
|  40 | SD03A | Mixer for the washbasin or sink, regardless of the switch-off model, including for disabled people, with the diameter of 1/2" | pcs | 3.000 |  |  |
|  41 | SC07A1 | The closet reservoir, completely equipped, from sanitary semi-porcelain or porcelain etc. including for disabled people, placed on the floor, with the water reservoir mounted at a certain height or semi-height, with the S-type internal drain trap  | pcs | 2.000 |  |  |
|  42 | SC02A | Shower bath from enameled cast iron, enameled tin, polymer- acryl, etc.  | pcs | 1.000 |  |  |
|  43 | SD02A | Mixing battery for the bath, with flexible or fixed shower, irrespective of the closing modality, including for the disabled people, mounted on the brick masonry walls or autoclaved aerated concrete  | pcs | 1.000 |  |  |
|  44 | SC05A | Sink made stainless steel, with a plastic sewer pipe, mounted on a brick masonry wall | pcs | 1.000 |  |  |
|  45 | SD03A | Mixer for the washbasin or sink, regardless of the switch-off model, including for disabled people, with the diameter of 1/2" | pcs | 1.000 |  |  |
|  46 | SB30A | Supporters to support the tubes and the joining elements for sewerage, with the weight up to 2 kg  | kg | 15.000 |  |  |
|  |  | **Total Sanitary equipment** |  | USD  |
|  |  | **Total**  |  | USD  |
|  |  | *Total Direct costs* |  USD  |  |
|  |  | *Social and health fund*  | % |  |
|  |  | *Transportation* | % |  |
|  |  | *Total* |   |  |
|  |  | *Overhead costs* | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimate benefit* | % |  |
|  |  | **Total Technical-sanitary works**  |  | USD  |
|  |  | **2. Mounting works**  |  |  |  |  |
| 47 | SE44A | Electrical water heater, having the capacity of 50 liters, mounted on consoles fixed into the wall | pcs | 1.000 |  |  |
|  |  | **Total**  |  | USD  |
|  |  | *Total Direct costs* |  USD  |  |
|  |  | *Social and health fund*  | % |  |
|  |  | *Transportation* | % |  |
|  |  | *Total* |   |  |
|  |  | *Overhead costs* | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimate benefit* | % |  |
|  |  |  **Total Mounting works**  |  | USD  |
|  |  | **3. Equipment**  |  |  |  |  |
| 48 | Market price  | Electrical boiler V=50l N=1,8 kW  | pcs | 1.000 |  |  |
|  |  | **Total**  |  | USD  |
|  |  | Procurement and storage costs  | 1.2 % |  |  |  |
|  |  |  **Total Equipment** |  | USD  |
|  |  | **Total (1+2+3)** |  USD  |  |
|  |  | ***Total without VAT: USD***  |

Note: *The bidder’s costs will include all the expenses including: materials and/or equipment, salaries, social payments, indirect costs*

|  |
| --- |
| Bidder  |
| (position, signature, name, surname)  |

 STAMP PLACE

***Bill of Quantities***

*Electrical power equipment, interior lighting*

|  |
| --- |
| Price offer value: USD |

Data: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Mounting works**  |  |  |  |  |
| 1 | 08-03-572-4 | Control unit executed of the cabinet type or distribution unit (cabinet) type, mounted on wall, height and width, mm, up to 1200х1000 / Counting and distributing unit BZUM-TF | piece | 1,000 |  |  |
|  2 | 08-03-526-2 | Mono-, bi-, tripolar automatic switch, mounted on constructions on wall or column, current up to 100 (ВА47-29) | piece | 1,000 |  |  |
|  3 | 08-03-600-2 | Counters, mounted on a prepared support, with three phases  | piece | 1,000 |  |  |
|  4 | 08-03-525-2 | Switch or package commutator in metal envelope, mounted on construction on wall or column, number of clamps for connection – up to 9, current up to 100 A (ВН32) | piece | 1,000 |  |  |
|  5 | 08-03-530-1 | Common destination magnetic starter, mounted on the construction on floor, current up to 40 A (ОПС1-В/3Р) | piece | 1,000 |  |  |
|  6 | 08-03-573-4 | Suspended control cabinet (console), height, width and depth, mm, up to 600х600х350 / ЩРн | piece | 2,000 |  |  |
|  7 | 08-03-526-1 | Mono-, bi-, tripolar automatic switch, mounted on constructions on wall or column, current up to 25 A (BA47-29) | piece | 8,000 |  |  |
|  8 | 08-03-526-2 | Mono-, bi-, tripolar automatic switch, mounted on constructions on wall or column, current up to 100 (АВДТ32) | piece | 17,000 |  |  |
|  9 | 08-03-526-1 | Mono-, bi-, tripolar automatic switch, mounted on constructions on wall or column, current up to 25 A (АВДТ32) | piece | 2,000 |  |  |
|  10 | 08-03-525-2 | Switch or package commutator in metal envelope, mounted on construction on wall or column, (ВН-32) | piece | 1,000 |  |  |
|  11 | 08-03-526-1 | Mono-, bi-, tripolar automatic switch, mounted on constructions on wall or column, current up to 25 A (РН-47) | piece | 1,000 |  |  |
|  12 | 08-03-525-2 | Switch or package commutator in metal envelope, mounted on construction on wall or column, number of clamps for connection – up to 9, current up to 100 A (МР63) | piece | 1,000 |  |  |
|  13 | 08-02-148-1 | Cable up to35 kV in pipes, blocks and laid-down boxes, mass of 1 m up to: 1 kg | 100 m | 0,520 |  |  |
|  14 | Market price | Cable ВВГнг(A)-FRLS 0.66 3x1.5 mm2 | m | 35,000 |  |  |
|  15 | Market price | Cable ВВГнг(A)-FRLS 0.66 3x2.5 mm2 | m | 17,000 |  |  |
|  16 | 08-02-148-1 | Cable up to35 kV in pipes, blocks and laid-down boxes, mass of 1 m up to: 1 kg | 100 m | 0,350 |  |  |
|  17 | Market price | Cable КВВГнг(A)-FRLS 0.66 4x1.5 mm2 | m | 35,000 |  |  |
|  18 | 08-02-148-1 | Cable up to35 kV in pipes, blocks and laid-down boxes, mass of 1 m up to: 1 kg | 100 m | 6,450 |  |  |
|  19 | Market price | Cable ВВГнг(A)-LS 0.66 3x2.5 mm2 | m | 400,00 |  |  |
|  20 | Market price | Cable ВВГнг(A)-LS 0.66 3x1.5 mm2 | m | 110,00 |  |  |
|  21 | Market price | Cable ВВГнг(A)-LS 0.66 3х4 mm2 | m | 35,000 |  |  |
|  22 | Market price | Cable ВВГнг(A)-LS 0.66 5х2,5 mm2 | m | 25,000 |  |  |
|  23 | Market price | Cable ВВГнг(A)-LS 0.66 5х4 mm2 | m | 30,000 |  |  |
|  24 | Market price | Cable ВВГнг(A)-LS 0.66 5х6 mm2 | m | 15,000 |  |  |
|  25 | Market price | Cable ВВГнг(A)-LS 0.66 1х10 mm2 | m | 30,000 |  |  |
|  26 | 08-02-412-4 | Introduction of conductors in laid-down pipes and metal hoses: first conductor single wire or multiwire in joint braiding, summary section up to 35 mm2 | 100 m | 0,050 |  |  |
|  27 | Market price | Flexible copper connection wire ПВС section 5х6 | m | 5,000 |  |  |
|  28 | 08-02-409-1 | Vinyl plastic pipe on installed constructions, on walls and columns, fixing with clips, d. up to din 25 mm | 100 m | 5,850 |  |  |
|  29 | Market price | PVC pipe with internal diameter of 14.1 mm | m | 125,00 |  |  |
|  30 | Market price | PVC pipe with internal diameter of 18.3 mm | m | 415,00 |  |  |
|  31 | Market price | PVC pipe with internal diameter of 31.5 mm | m | 45,000 |  |  |
|  32 | 08-02-409-2 | Vinyl plastic pipe on installed constructions, on walls and columns, fixing with clips, diameter up to 50 mm | 100 m | 0,050 |  |  |
|  33 | Market price | HDP pipe ф 50 mm | m | 5,000 |  |  |
|  34 | 08-03-594-10 | Lamp, LED, 35W, IP20, supply voltage 230V of the OPL/S Eco LED or analogical type, including the cost of the lamp  | 100 pcs. | 0,120 |  |  |
|  35 | 08-03-594-10 | Lamp, LED, 18W, IP54, supply voltage 230V of the CD LED 18 or analogical type, including the cost of the lamp  | 100 pcs. | 0,080 |  |  |
|  36 | 08-03-594-10 | Lamp LED, 70W, IP54, supply voltage 230V of the ALS.PRS UNI LED or analogical type, including the cost of the lamp  | 100 pcs. | 0,080 |  |  |
|  37 | 08-03-594-10 | Lamp with luminescent bulb, 70W, IP65, supply voltage 230V of the NBU 70 type, including the cost of the lamp  | 100 pcs. | 0,010 |  |  |
|  38 | 08-03-591-5 | Bipolar switch, applied mounting 10A, 220V IP20, including the cost of the switch | 100 pcs. | 0,060 |  |  |
|  39 | 08-03-591-2 | Monopolar switch, applied mounting 10A, 220 IP20, including the cost of the switch | 100 pcs. | 0,070 |  |  |
|  40 | 08-03-591-4 | Bipolar switch, applied mounting 10A, 220V IP44, including the cost of the switch | 100 pcs. | 0,010 |  |  |
|  41 | 08-03-591-1 | Monopolar switch, applied mounting 10A, 220V IP44, including the cost of the switch | 100 pcs. | 0,020 |  |  |
|  42 | 08-03-591-9 | Plug socket for open installation, IP20, 16А, 220В | 100 pcs. | 0,150 |  |  |
|  43 | 08-03-591-10 | Plug socket for open installation, IP44, 16А, 220В | 100 pcs. | 0,040 |  |  |
|  44 | 08-03-591-10 | Plug socket 16A/380B with mechanical blocking and switch IP-67 | 100 pcs. | 0,020 |  |  |
|  45 | 08-02-396-6 | Metal channel on walls and ceilings, length of 3 m | 100 m | 0,550 |  |  |
|  46 | 08-02-152-12 | Metal cable constructions: suspension for laying down cables under platforms with support: separately, mass up to 8 kg | 100 pcs. | 0,050 |  |  |
|  47 | Market price | Ceiling-mounted holder  | piece | 5,000 |  |  |
|  48 | 08-02-152-4 | Metal cable constructions: support of assembled cable constructions (without shelves), mass up to: 1.6 kg | 100 pcs. | 0,100 |  |  |
|  49 | Market price | Pin  | piece | 10,000 |  |  |
|  50 | Market price | Wall-mounted carrier  | piece | 10,000 |  |  |
|  51 | Market price | Unperforated metal channel, zinc coated 35x50mm L=3000mm with channel cap  | m | 35,000 |  |  |
|  52 | Market price | Unperforated metal channel, zinc coated 100x100mm L=3000mm with channel cap  | m | 20,000 |  |  |
|  53 | 08-02-303-7 | Steel cable, longitudinal-main  | 1 km | 0,060 |  |  |
|  54 | Market price | Steal cable ф3мм | m | 60,000 |  |  |
|  55 | Market price | Distribution cabinet  | piece | 25,000 |  |  |
|  56 | 08-02-472-1 | Earthing conductors, earthing socket, horizontal, of round steel, diameter of 20 mm | 100 m | 0,120 |  |  |
|  57 | 08-02-472-6 | Earthing conductor, open, on supports of constructions, of strip steel, 100 mm2 section  | 100 m | 0,700 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Mounting works**  |  | USD |
|  |  | **2. Equipment** |  |  |  |  |
| 58 | Market price | Counting and distributing unit BZUM-TF | piece | 1,000 |  |  |
|  59 | Market price | Automatic switcher ВА47-29/3/С32A | piece | 1,000 |  |  |
|  60 | Market price | Electronic counter 380V, 5-60A, MT-174-D2A | piece | 1,000 |  |  |
|  61 | Market price | Load-break switch, ВН32/3Р/63 | piece | 1,000 |  |  |
|  62 | Market price | Surge protective device ОПС1-В/3Р | piece | 1,000 |  |  |
|  63 | Market price | Compartment for the installation of automatic switches for 36 modules, ЩРн-36з-1 У2 IP54, gab. 579(h)x310x138 | piece | 1,000 |  |  |
|  64 | Market price | Module switch МР63/3Р/40А | piece | 1,000 |  |  |
|  65 | Market price | Automatic switcher ВА47-29/1/В10A | piece | 1,000 |  |  |
|  66 | Market price | Automatic switcher ВА47-29/1/С10A | piece | 3,000 |  |  |
|  67 | Market price | Automatic switcher ВА47-29/1/C25A | piece | 1,000 |  |  |
|  68 | Market price | Automatic switcher for differential current АВДТ32/С16/30мА | piece | 10,000 |  |  |
|  69 | Market price | Automatic switcher for differential current АВДТ32/С16/10мА | piece | 2,000 |  |  |
|  70 | Market price | Automatic switcher for differential current АВДТ32/С20/30мА | piece | 2,000 |  |  |
|  71 | Market price | Compartment for the installation of automatic switches for 24 modules, ЩРн-24з-1 36 УХЛЗ IP31, gab. 395(h)x310x120 | piece | 1,000 |  |  |
|  72 | Market price | Automatic switcher ВА47-29/1/В10A | piece | 2,000 |  |  |
|  73 | Market price | Automatic switcher ВА47-29/1/С4A | piece | 1,000 |  |  |
|  74 | Market price | Automatic switcher for differential current АВДТ32/С16/30мА | piece | 5,000 |  |  |
|  75 | Market price | Independent release device BA47 РН-47 | piece | 1,000 |  |  |
|  76 | Market price | Load-break switch, ВН-32/3Р/20 | piece | 1,000 |  |  |
|  |  | **Total Equipment** |  | USD |
|  |  | *Expenses on purchase and storage*  | 1.2% |  |
|  |  | **Total Equipment**  |  | USD |
|  |  | **Total (1+2)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

*Works of heating, ventilation, air conditioning*

|  |
| --- |
| Price offer value: USD |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  |  | 1. **Ventilation, technical-plumbing works**
 |  |  |  |  |
| 1 | VA02F | Manufacture and mounting of straight ventilation channels, of zinc-coated or aluminum tin of 0.5 mm thickness, with the circular section perimeter of 700 - 1600 mm | m2 |  |  |  |
|  2 | IC42A | Retainers and fixing devices for the support of pipelines, boilers, appliances and recipients, with the weight up to 2 kg / piece | kg |  |  |  |
|  3 | VB09B | Casing with fixed blinds, ready-made, with the perimeter of 800 - 2500 mm, mounted on channel / Metal ventilation grills for outside installation. Д=400мм, P400 | piece |  |  |  |
|  4 | VB09B | Casing with fixed blinds, ready-made, with the perimeter of 800 - 2500 mm, mounted on channel / Metal ventilation grills for outside installation. 400х400мм, Р400х400 | piece |  |  |  |
|  5 | VB09B | Casing with fixed blinds, ready-made, with the perimeter of 800 - 2500 mm, mounted on channel / Ventilation grills 200х400 for interior installation, Р400х200 | piece |  |  |  |
|  6 | VB09B | Casing with fixed blinds, ready-made, with the perimeter of 800 - 2500 mm, mounted on channel / Window ventilator ПО 400 | piece |  |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |   |  |  USD  |  |
|  |  | *Social and medical insurance funds*  | % |  |  |  |
|  |  | *Transportation*  | % |  |  |  |
|  |  | *Total* |   |  |  |  |
|  |  | *Management expenses*  | % |  |  |  |
|  |  | *Total* |   |  |  |  |
|  |  | *Estimated benefit*  | % |  |  |  |
|  |  | **Total Ventilation, technical-plumbing works**  |  | USD |
|  |  | **2. Mounting works** **2.1 Heating**  |  |  |  |  |
| 7 | IB17A | Monobloc hot air generator / Infrared heating device, mounted on ceiling  | piece | 3,000 |  |  |
|  8 | IB02A | Electrical wall-mounted convector  | piece | 4,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **2. 2 Ventilation**  |  |  |  |  |
| 9 | VC04A | Mounting the mono-aspirating, anti-explosive ventilators, directly entrained with coupling, with the flow of 660-2.700 mc/h with electric engine 0,8 kw | piece | 2,000 |  |  |
|  10 | VC07A | Mounting the axial, window ventilators, with the weight of 3.6 – 8.2 kg, with 0.25 – 0.55 kw engine  | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Mounting works**  |  | USD |
|  |  | *Total Direct expenses*  |   |  |  USD  |  |
|  |  | *Social and medical insurance funds*  | % |  |  |  |
|  |  | *Transportation*  | % |  |  |  |
|  |  | *Total* |   |  |  |  |
|  |  | *Management expenses*  | % |  |  |  |
|  |  | *Total* |   |  |  |  |
|  |  | *Estimated benefit*  | % |  |  |  |
|  |  | **Total Mounting works**  |  | USD |
|  |  | **3. Equipment** **3.1. Heating equipment**  |  |  |  |  |
| 11 | Market price | Infrared heating device, installed on ceiling. N=3 kWt, 220V dim.1.36м\*0.25m, of the BIH-APL-3.0 "BALLU" or analogical type  | piece | 2,000 |  |  |
|  12 | Market price | Infrared heating device, installed on ceiling. N=3 kWt, 220V dim.1.36m\*0.13m, of the BIH-APL-1.0 "BALLU" or analogical type  | piece | 1,000 |  |  |
|  13 | Market price | Wall-mounted electrical convectors N=2 kWt, 220V, of the BEC/EZMR-2000 "BALLU" or analogical type  | piece | 3,000 |  |  |
|  14 | Market price | Wall-mounted electrical convectors N=1 kWt, 220V of the BEC/EZMR-1000 "BALLU" or analogical type  | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **3.2. Ventilation equipment**  |  |  |  |  |
| 15 |  | Channel ventilator of the mixed type. For round air ducts Д=315мм. G=1500М3/hour, Н=200Па. with electrical engine N=0,32 kWt, n=2433 rot/min. ~220v. of the RVK 315E2-L1 "Systemair" or analogical type  | piece | 1,000 |  |  |
|  16 |  | Exhaust gases elimination system DP-100-6. In set with air duct, air-exhauster, suction hose, automatic valve and command unit. 370м3/h of the DP-100-6 or analogical type  | piece | 1,000 |  |  |
|  17 |  | Cooker hood Elica Elite 14 Lux WH/A/60. with ventilator L=300м3/hour. N=200Wt ~220V. of the Elica Elite 14 Lux WH/A/60 or analogical type  | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Equipment**  |  | USD |
|  |  | *Expenses for purchase and storage*  | 1.2% |  |
|  |  | **Total Equipment** |  | USD |
|  |  | **Total (1+2+3)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

*Fire alarm*

|  |
| --- |
| Price offer value: USD |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Mounting works**  |  |  | олодец |  |
| 1 | 10-08-001-04 | Receiving devices: Fire receiving and control device for 4 beams  | piece | 1,000 |  |  |
|  2 | 10-08-002-02 | "ПС" Automatic alarms: Smoke fire detector  | piece | 11,000 |  |  |
|  3 | 10-08-002-01 | "ПС Automatic alarms ": Heat fire detector  | piece | 3,000 |  |  |
|  4 | 10-08-002-01 | "ПС" Automatic alarms: Manual fire detector  | piece | 2,000 |  |  |
|  5 | 10-04-066-05 | Wall-mounted devices: security-fire sound alarm  | piece | 3,000 |  |  |
|  6 | 10-08-003-03 | Ultrasound devices: Reserve power-supply source РИП-12 | piece | 1,000 |  |  |
|  7 | 10-04-100-06 | Equipment of the radio-transmission nodes: GSM communicator  | piece | 1,000 |  |  |
|  8 | 10-04-066-05 | Wall-mounted devices: Warning horn with strobe light  | piece | 1,000 |  |  |
|  9 | 10-01-055-02 | Laying down the cable and conductor on walls: Cable, mass of 1 m up to 1 kg | 100 m | 1,000 |  |  |
|  10 | Market price | Alarm cable. Cable wires 2x0,5 mm2 | m | 100,00 |  |  |
|  11 | 08-02-409-1 | Vinyl plastic pipe on installed constructions, on walls and columns, fixed with clips, diameter up to 25 mm | 100 m | 0,700 |  |  |
|  12 | Market price  | Corrugated pipe of PVC, complex profile pipe ф15 mm | m | 70,000 |  |  |
|  13 | 10-01-039-06 | Various pieces: Resistor and Diode  | piece | 6,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total mounting works**  |  | **USD** |
|  |  | 1. **Equipment**
 |  |  | олодец |  |
| 14 | Market price | Fire receiving and control device for 4 beams of the MAG4P or analogical type | piece | 1,000 |  |  |
|  15 | Market price | Smoke fire detector of the SensoMAG S30 or analogical type | piece | 11,000 |  |  |
|  16 | Market price | Heat fire detector SensoMAG R20 or analogical type | piece | 3,000 |  |  |
|  17 | Market price | Manual fire detector of the SensoIRIS MCP150 or analogical type | piece | 2,000 |  |  |
|  18 | Market price | Security-fire sound alarm of the SensoIRIS WSOU or analogical type | piece | 3,000 |  |  |
|  19 | Market price | Resistor МЛТ 0.25-4.3 kOm | piece | 3,000 |  |  |
|  20 | Market price | Diode КД 521А | piece | 3,000 |  |  |
|  21 | Market price | Reserve power-supply source РИП-12 | piece | 1,000 |  |  |
|  22 | Market price | GSM communicator  | piece | 1,000 |  |  |
|  23 | Market price | Warning horn with strobe light of the SF200 or analogical type  | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Expenses for purchase and storage*  | 1.2% |  |
|  |  | **Total Equipment**  |  | USD |
|  |  | **Total (1+2)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

*Autonomous security alarm*

|  |
| --- |
| Price offer value: USD |

Data: 03.11.20

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| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Mounting works**  |  |  | олодец |  |
| 1 | 10-08-001-01 | Receiving devices: Receiving control device, for 7 areas  | piece | 1,000 |  |  |
|  2 | 10-08-001-10 | Receiving devices: Object receiving and control devices for: Keyboard  | piece | 1,000 |  |  |
|  3 | 10-08-003-03 | Ultrasound devices: 30ВА transformer  | piece | 1,000 |  |  |
|  4 | 10-02-016-06 | Devices: Separately installed: Reserve power supply source  | piece | 1,000 |  |  |
|  5 | 08-01-121-1 | Accumulator unit, accumulator battery 12В, 7А | piece | 1,000 |  |  |
|  6 | 10-04-100-06 | Equipment of the radio-transmission nodes: Radio-transmitter with 1 channel  | piece | 1,000 |  |  |
|  7 | 10-08-002-02 | "ПС" automatic alarms: Combined sensor, infrared detection + breakage  | piece | 6,000 |  |  |
|  8 | 10-08-002-02 | "ПС" automatic alarms: Infrared sensor  | piece | 1,000 |  |  |
|  9 | 10-08-002-04 | "ОС" automatic alarms: Magnetic-contact sensor  | piece | 16,000 |  |  |
|  10 | 10-04-066-05 | Wall-mounted device: Warning horn with flashing light  | piece | 1,000 |  |  |
|  11 | 10-01-055-02 | Laying down the cable and conductor on walls: Cable, mass of 1 m up to 1 kg, on wall: of brick  | 100 m | 1,500 |  |  |
|  12 | Market price | Cable CQR 6 | m | 135,00 |  |  |
|  13 | Market price | Wire, section 3х1.5 mm2 | m | 15,000 |  |  |
|  14 | 08-02-390-1 | Plastic channels with the width: up to 40 mm. Plastic cable channel 10x22mm | 100 m | 0,200 |  |  |
|  15 | Market price | Plastic gutter 10x22mm | m | 20,000 |  |  |
|  16 | 08-02-409-1 | Vinyl plastic pipe on installed constructions, on walls and columns, fixed with clips, diameter up to 25 mm | 100 m | 1,310 |  |  |
|  17 | Market price | Polyvinylchloride pipe ф16 | m | 121,00 |  |  |
|  18 | Market price | Polyvinylchloride pipe ф25 | m | 10,000 |  |  |
|  19 | Market price | Fixing materials  | kg | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Mounting works**  |  | **USD** |
|  |  | **2. Equipment**  |  |  | олодец |  |
| 20 | Market price | Receiving control device, for 7 areas, of the PC-1832 DSC Canada or analogical type  | piece | 1,000 |  |  |
|  21 | Market price | Keyboard  | piece | 1,000 |  |  |
|  22 | Market price | Transformer 30ВА | piece | 1,000 |  |  |
|  23 | Market price | Reserve power supply unit  | piece | 1,000 |  |  |
|  24 | Market price | Accumulator battery 12В, 7А | piece | 1,000 |  |  |
|  25 | Market price | Radio-transmitter with 1 channel  | piece | 1,000 |  |  |
|  26 | Market price | Combined sensor, infrared detection + breakage SRPG | piece | 6,000 |  |  |
|  27 | Market price | Infrared sensor SRP | piece | 1,000 |  |  |
|  28 | Market price | Magnetic-contact sensor  | piece | 16,000 |  |  |
|  29 | Market price | Warning horn with flashing light 11-14VDC; 250mA; 110db/m | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Expenses for purchase and storage*  | 1.2% |  |
|  |  | **Total Equipment**  |  | USD |
|  |  | **Total (1+2)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

*Electrical power supply*

|  |
| --- |
| Price offer value**: USD** |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Construction works**  |  |  |  |  |
| 1 | 33-04-008-3 | Suspension with the help of mechanisms of the insulated conductors LEA 0.38 kV | 1 km | 0,280 |  |  |
|  2 | Market price | Insulated self-support cable СИП 3х35+1х54.6 mm2 | m | 280,00 |  |  |
|  3 | 33-04-016-2 | Transportation of constructions and materials of the supports LEA 0.38-10 kV on the main line: of single pillar reinforced concrete supports  | piece | 6,000 |  |  |
|  4 | 33-04-003-1 | Mounting the reinforced concrete pillars LEA 0.38, 6-10 kV with crosspieces without additions, with one pillar  | piece | 6,000 |  |  |
|  5 | Market price | Reinforced concrete support СВ-105-5 | piece | 4,000 |  |  |
|  6 | Market price | Reinforced concrete support СВ-95-2 | piece | 2,000 |  |  |
|  7 | Market price | Anchor clamp PA-1500  | piece | 14,000 |  |  |
|  8 | Market price | Carrier CA-1500 | piece | 20,000 |  |  |
|  9 | Market price | Intermediary suspension set ES 1500E | piece | 6,000 |  |  |
|  10 | Market price | Clamps for strip fixing NC 20 | piece | 24,000 |  |  |
|  11 | Market price | Stainless steel strip F 207  | m | 24,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Construction works**  |  | USD |
|   |  | **2. Mounting works**  |  |  |  |  |
| 12 | 08-03-525-2 | Switch or package commutator in metal envelope, mounted on construction on wall or column, number of clamps for connection – up to 9, current up to 100 A (ПРВ-160) | piece | 1,000 |  |  |
|  13 | 08-03-525-2 | Switch or package commutator in metal envelope, mounted on construction on wall or column, number of clamps for connection – up to 9, current up to 100 A (ОПН SPB\*/10(A35\*\*)) | piece | 6,000 |  |  |
|  14 | 08-02-396-6 | Metal channel on walls and ceilings, length of 3 m | 100 m | 0,030 |  |  |
|  15 |  | Unperforated metal channel, zinc-coated, 50x50mm L=3000mm with channel cap  | m | 3,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Mounting works**  |  | USD |
|  |  | **3. Equipment**  |  |  |  |  |
| 16 |  | Fuse-switch-releaser in set with fuses /pl. ins.=40А ПРВ-160  | piece | 1 |  |  |
|  17 |  | Surge overvoltage protection devices ОПН SPB\*/10(A35\*\*) | piece | 6 |  |  |
|  |  | **Total** |  | **USD** |
|  |  | *Storage expenses*  | 1.2% |  |
|  |  | **Total Equipment**  |  | USD |
|  |  | **Total (1+2+3)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

 *External water supply and household sewage networks*

|  |
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| Price offer value**: USD** |

Date: 03.11.20

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| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  |  | **1. Construction works** **1.1 Earthworks** **1.1.1. Digging for pipe placement**  |  |  |  |  |
| 1 | DI118 | Mechanized scraping of the pavement of crushed rock  | m3 | 0,300 |  |  |
|  2 | TsC02B1 | Mechanical digging with 0.21-0.39 m3 excavator on tires, with hydraulic command, in grounds with natural humidity, unloading in storage yard, II category land. | 100 m3 | 0,794 |  |  |
|  3 | TsC02D1 | Mechanical digging with 0.21-0.39 m3 excavator on tires, with hydraulic command, in grounds with natural humidity, unloading in motor vehicles, II category land  | 100 m3 | 0,270 |  |  |
|  4 | TsA02F | Manual earth digging in limited spaces, with the width of under 1.00 m or above 1.00 m, performed without supports, with vertical embankment, at foundations, channels, undergrounds, drains, joining steps, in medium cohesive or very cohesive land, at the depth < 1.5 m, hard land  | m3 | 3,200 |  |  |
|  5 | TsI50A5 | Transportation of the ground with the 5 t dumper to a distance of 5 km  | t | 45,900 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **1.1.2. Digging for tube placement** |  |  |  |  |
| 6 | TsA02F | Manual earth digging in limited spaces, with the width of under 1.00 m or above 1.00 m, performed without supports, with vertical embankment, at foundations, channels, undergrounds, drains, joining steps, in medium cohesive or very cohesive land, at the depth < 1.5 m, hard land  | m3 | 18,390 |  |  |
|  7 | TsH92B | Loading the soil (ground) in vehicle, with boulders, with stones  | t | 7,600 |  |  |
|  8 | TsI50A5 | Transportation of the ground with the 5 t dumper to a distance of 5 km  | t | 7,600 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **1.1.3. Pipe fillings**  |  |  |  |  |
| 9 | TsD01B | Foundation layer for pipe placement of compacted ground  | m3 | 27,000 |  |  |
|  10 | TsD01B | Spreading the refined ground with a shovel, in uniform layers with the thickness of 10-30 cm, by throwing from reams to a distance of up to 3 m, including hunk breaking, ground from medium land  | m3 | 79,400 |  |  |
|  11 | TsD04D | Compaction of the fillings made in horizontal of 1/4 inclined diggings with the manual tamper, including the watering of each separate layer having 20 cm thickness cohesive land  | m3 | 25,660 |  |  |
|  12 | TsD05B | Compaction of the fillings with the 150-200 kg mechanical tamper in successive layers with the thickness of 20-30 cm, excluding the watering of each separate layer, as fillings are made of cohesive ground  | 100 m3 | 0,537 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **1.1.4. Well fillings**  |  |  |  |  |
| 13 | TsD01B | Spreading the refined ground with a shovel, in uniform layers with the thickness of 10-30 cm, by throwing from reams to a distance of up to 3 m, including hunk breaking, ground from medium land  | m3 | 13,920 |  |  |
|  14 | TsD05B | Compaction of the fillings with the 150-200 kg mechanical tamper in successive layers with the thickness of 20-30 cm, excluding the watering of each separate layer, as fillings are made of cohesive ground  | 100 m3 | 0,139 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Earthworks**  |  | USD |
|  |  | **1.2. Sewage wells (CC-1, CC-2)** |  |  |  |  |
| 15 | AcE13A | Executing the inspection holes of precast reinforced concrete elements, for sewage, circular (ring-type) with the diameter of 1.0 m, in land without underground waters  | m3 | 1,020 |  |  |
|  16 | AcE13A1 | Elements of precast reinforced concrete of the inspection holes, circular (ring-type) with the diameter of 1.0 m, for sewage, in land without underground waters. / КЦД-10- 2 pcs.; КЦП1-10-2 – 2 pcs.; КЦ-10-9 – 1 pcs.; КЦО-1 – 2 pcs.; КЦ-7-3 – 2 pcs. | piece | 2,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **1.3. Aqueduct wells**  |  |  |  |  |
| 17 | AcE10A | Executing the tank manholes of precast reinforced concrete elements, for water supply, circular (ring-type) with the diameter of 1.0 m, in land without underground waters  | m3 | 1,500 |  |  |
|  18 | AcE10A1 | Elements of precast reinforced concrete of the tank manholes, circular (ring-type) with the diameter of 1.0 m, for water supply, in land without underground waters. / КЦД-10- 1 piece; КЦП1-10-2 – 1 piece; КЦ-10-6 – 1 piece; КЦ-10-9a – 1 piece; КЦО-1 – 1 piece; КЦ-7-3 – 1 piece | piece | 2,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **1.4. Restoration of pavement**  |  |  |  |  |
| 19 | TsC54C | Foundation layer of gravel | m3 | 0,300 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Construction works**  |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Construction works**  |  | USD |
|  |  | **2. Technical-plumbing works** **2.1. Aqueduct**  |  |  |  |  |
| 20 | AcA52A | Polyethylene pipe, for water supply pipelines, mounted in ditch, with the diameter of 32 mm. / Polyethylene pipeline PEND PE100 SDR17 Pn10 diam.32mm  | m | 90,000 |  |  |
|  21 | AcF12A | Pressure test of the polyethylene pipelines mounted in ditches for water supply and sewage networks, with the diameter up to 100 mm  | m | 90,000 |  |  |
|  22 | AcF11C | Washing the pipes of PVC, cast iron, asbestos-cement, polyethylene, etc., of 20-75 mm, for drinking water, after the mounting and joining, before acceptance  | m | 90,000 |  |  |
|  23 | SE56A | Drinking water filter, with screwed sleeves for mounting on the pipeline, with the dimension of 1" - 2" / Water filter d.25mm  | piece | 1,000 |  |  |
|  24 | SD19B | Non-return valve with straight faucet with screwed sleeves, with the diameter of 1" / Spherical valve of bronze dn 25mm  | piece | 2,000 |  |  |
|  25 | AcC04A | Mounting on the existing position of the float valves used for the admission of water in filters of the IPACH type / Reversible valve dn 25mm  | piece | 1,000 |  |  |
|  26 | SD19A | Non-return valve with straight faucet with screwed sleeves, with the diameter of 1/2" - 3/4" / Ball valve for drainage d.15mm FI FI long handle PN25  | piece | 1,000 |  |  |
|  27 | AcA21A | Joining the coupled pipes of PVC, with cast iron coupling, with flanges of the CS 39-77 type, having the diameter of 63 mm / Coupling ф75x25  | piece | 1,000 |  |  |
|  28 | IC44A | Manufacture, mounting and cementation of the protection pipe at the passing of the pipelines through masonry, where the pipe has the diameter of 1" -2" / Steel pipe l=300 ф57x3.5  | piece | 3,000 |  |  |
|  29 | RpAcA37A | Joining with a flange the connection pieces, flanges, including blind flanges and fittings, having the diameter of 50-100 mm / Connection of the pipe d.32mm to the existing pipe d.75mm  | piece | 1,000 |  |  |
|  30 | SD19B | Non-return valve with straight faucet with screwed sleeves, with the diameter of 1" / Bronze faucet dn 25mm  | piece | 1,000 |  |  |
|  31 | AcA07A | Mounting in earth, outside buildings, of PVC pipes of the 4(G) or 3(M) type, with the diameter of 25-90 mm / Protection tube PE80 diam. 63mm | m | 5,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **2. 2. Sewage**  |  |  |  |  |
| 32 | AcD18B | Mounting the PVC pipe for drainage, coupled by pasting, outside buildings, cached at a depth of up to 2 m, with the diameter of 75-125 mm / PVC sewage tube SN4 dn 110mm  | m | 13,000 |  |  |
|  33 | AcD18C | Mounting the PVC pipe for drainage, coupled by pasting, outside buildings, cached at a depth of up to 2 m, with the diameter of 140-185 mm / PVC sewage tube SN4 dn 160mm  | m | 16,000 |  |  |
|  34 | AcD18A | Mounting the PEND pipe for drainage, coupled by pasting, outside buildings, cached at a depth of up to 2 m, with the diameter of 25-63 mm / PEND tube SDR21 SN6 dn 63mm  | m | 7,000 |  |  |
|  35 | AcF11C | Washing the pipes of PVC, cast iron, asbestos-cement, polyethylene, etc., of 20-75 mm, for drinking water, after the mounting and joining, before acceptance  | m | 7,000 |  |  |
|  36 | AcF11D | Washing the pipes of PVC, cast iron, asbestos-cement, polyethylene, etc., of 80-110 mm, for drinking water, after the mounting and joining, before acceptance  | m | 13,000 |  |  |
|  37 | AcF11E | Washing the pipes of PVC, cast iron, asbestos-cement, polyethylene, etc., of 150-225 mm, for drinking water, after the mounting and joining, before acceptance  | m | 16,000 |  |  |
|  38 | AcF12A | Pressure test of the polyethylene pipelines mounted in ditches for water supply and sewage networks, with the diameter up to 100 mm  | m | 7,000 |  |  |
|  39 | AcF12B | Pressure test of the polyethylene pipelines mounted in ditches for water supply and sewage networks, with the diameter up to 150 mm | m | 13,000 |  |  |
|  40 | AcF12C | Pressure test of the polyethylene pipelines mounted in ditches for water supply and sewage networks, with the diameter up to 200 mm  | m | 16,000 |  |  |
|  41 | IC44C | Manufacture, mounting and cementation of the protection pipe at the passing of the pipelines through masonry, where the pipe has the diameter of 127 x 4 mm... 178 x 5 mm | piece | 2,000 |  |  |
|  42 | AcB01A | Mounting the hand-operated or mechanically operated fittings (shutters, faucets, valves) to the water supply or sewage pipelines, with the diameter of 50-100 mm / Cast iron shutter dn 50mm  | piece | 2,000 |  |  |
|  43 | AcB01A | Mounting the hand-operated or mechanically operated fittings (shutters, faucets, valves) to the water supply or sewage pipelines, with the diameter of 50-100 mm / Reversible faucet dn 50mm  | piece | 1,000 |  |  |
|  44 | AcD20B | Manufacture and mounting of fittings for channels, executed through inside the channel, with OB-37 manufactured on site, with draining H of 1.8-4 m and coverage of 1-5 m  | kg | 42,780 |  |  |
|  45 | AcD19B | Manufacture and mounting of casings for simple and reinforced concrete, poured in channels, executed through inside the channel, with the draining H of 1.8-4 m and coverage of 1-5 m  | m2 | 1,800 |  |  |
|  46 | AcD22B | Preparation and pouring of concrete in the foundation of the channels, through inside with H 1.8-4 m and coverage of 1-5 m  | m3 | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Technical-plumbing works** |  | USD |
|  |  | Total |  |  |  |  |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Technical-plumbing works** |  | USD |
|  |  | **3. Mounting works** **3.1. Aqueduct**  |  |  |  |  |
| 47 | AcB04A | Mounting the water meter of the cached concession valve, on the existing position on steel couplings, with the diameter of 15 mm  | piece | 1,000 |  |  |
| 48 | IA18B | Fine fittings for the central heating boilers: hydrometer or manometer with control valve / Technical manometer Py=10 kgc/cm, С.1 1Б 100 | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **3.2. Sewage**  |  |  |  |  |
| 49 | IA30A | Deposit tank for liquid fuel, of cylindrical form, mounted above the ground, half-cached or underground / Hydrocarbon separator  | piece | 1,000 |  |  |
| 50 | AcC05A | Mounting on the existing base plate of the wastewater pumps, with horizontal axis, with the aspiration joint diameter of 2"-4" / Drainage pump  | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Mounting works** |  | USD |
|  |  | Total |  |  |  |  |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total Mounting works** |  | USD |
|  |  | **4. Equipment** **4.1 Aqueduct**  |  |  |  |  |
| 51 |  | Cold water meter d.15mm R160 | piece | 1,000 |  |  |
| 52 |  | Technical manometer Py=10 kgc/cm, С.1 1Б 100 | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **4.2 Sewage**  |  |  |  |  |
| 53 |  | Hydrocarbon separator q=0,5 l/sec | piece | 1,000 |  |  |
| 54 |  | Drainage pump G=1.5m3/h; H=10,0m; N=0.55 kwt (Wilo-Drain TM-32 or analogical) | piece | 1,000 |  |  |
| 55 |  | Hose dn 50mm | m | 20,000 |  |  |
| 56 |  | Pressure extinguishing piece ф63 | piece | 1,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Equipment**  |  | USD |
|  |  | *Expenses on storage and purchase* | 1.2 % |  |
|  |  | **Total Equipment**  |  | USD |
|  |  | **Total (1+2+3+4)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

 Stamp

***Bill of Quantities***

*Territorial planning works*

|  |
| --- |
| Price offer value**: USD** |

Date: 03.11.20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Norm symbol and Resource code  | Works and expenses  | M.U. | Quantity according to the design data | Estimated value, **USD**  |
| Per measure unit ————incl. salary | Total———incl. salary |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|   |  | **1. Earthworks**  |  |  |  |  |
| 1 | TsC01A | Mechanical scarification of the land, with caterpillar bulldozer (scarifying machine) 81-180 hp, at the depth of 30 cm, 3 category land.  | 100m2 | 9,200 |  |  |
|  2 | TsC03E1 | Mechanical digging with the 0.40-0.70 m3 excavator, with internal combustion engine and hydraulic command, in grounds with natural humidity, unloading in motor vehicles, I category land  | 100 m3 | 2,080 |  |  |
|  3 | TsI51A1 | Transportation of the ground with the 10 t dumper to a distance of: 1 km / storage for subsequent use  | t | 291,000 |  |  |
|  4 | TsC03E1 | Mechanical digging with the 0.40-0.70 m3 excavator, with internal combustion engine and hydraulic command, in grounds with natural humidity, unloading in motor vehicles, I category land / including the execution of the trough  | 100 m3 | 1,530 |  |  |
|  5 | TsI51A5 | Transportation of the ground with the 10 t dumper to a distance of: 5 km  | t | 214,000 |  |  |
|  6 | TsC35A12 | Transport of excavated ground with loading scraper, to distances of loading in a 0.5-0.99 m3 caterpillar loading scraper, ground from I category land, to a distance of 21-30 m / layer rehabilitation  | 100 m3 | 2,080 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **2. Pavement of type 1** |  |  |  |  |
| 7 | TsD05B | Compaction of the fillings with the 150-200 kg mechanical tamper in successive layers with the thickness of 20-30 cm, excluding the watering of each separate layer, as fillings are made of cohesive ground  | 100 m3 | 0,290 |  |  |
|  8 | DA18B | Foundation layer of aggregates in optimal mixes, made with mechanical laying  | m3 | 14,400 |  |  |
|  9 | TsC54A | Foundation layer of black sand  | m3 | 2,900 |  |  |
|  10 | DC05B | Pavement of concrete with cement in roads, executed in one layer, with the thickness of 18 cm / Cement-concrete B25, F-200, W-6  | m2 | 96,000 |  |  |
|  11 | DC04B | Cutting with the diamond-disc machine of the contraction and dilation joints in the wear concrete in roads  | m | 26,800 |  |  |
|  12 | RpCE18B | Sealing the dilation joints in terraces, platforms, walls and reinforced concrete skeleton, by partial filling of the gaps, both towards inside and towards outside, with 30mm rubber profile glued with bituminous mastic to the wooden board treated with bituminous mastic  | m | 11,000 |  |  |
|  13 | RpCE18B | Sealing the dilation joints in terraces, platforms, walls and reinforced concrete skeleton, by partial filling of the gaps, both towards inside and towards outside, with 5mm rubber profile glued with bituminous mastic to the wooden board treated with bituminous mastic  | m | 33,500 |  |  |
|  14 | RpCE33A | Filling the joints between the sidewalk and the basement of the building, with D type bitumen  | m | 44,500 |  |  |
|  15 | DE10C | Precast concrete border stones, for sidewalks, 20x30 cm, on concrete foundation of 30x15 cm / BR 100.30.15 | m | 32,500 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **3. Pavement of type 2** |  |  |  |  |
| 16 | TsD05B | Compaction of the fillings with the 150-200 kg mechanical tamper in successive layers with the thickness of 20-30 cm, excluding the watering of each separate layer, as fillings are made of cohesive ground  | 100 m3 | 0,216 |  |  |
|  17 | TsC54A | Foundation layer of sand  | m3 | 7,200 |  |  |
|  18 | DE17A | Pavements made of sidewalk tiles with the thickness of 4.0 cm, of precast concrete, placed on a layer of dry mix of cement and sand, in proportion of 1:3, joints sealed with dry mix of cement and sand, thickness of the layer of 5 cm  | m2 | 72,000 |  |  |
|  19 | DE10A | Precast concrete border stones, for sidewalks, 20x25 cm, on concrete foundation of 30x15 cm / BR 100.20.8 | m | 54,500 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **4. Land improvement**  |  |  |  |  |
|  20 | TsH04A | Manual mobilization of the soil to ensure the grip with the vegetal layer, leveling and finishing the surfaces after soil mobilization, middle land at the depth of 10 cm  | m2 | 597,000 |  |  |
|  21 | TsH05D | Uniform laying of the layer of vegetal soil, on horizontal land or land with 20 % incline, keeping the structure, in layers with the thickness of 30 cm  | m2 | 597,000 |  |  |
|  |  | **Total**  |  | USD |
|  |  | **Total Land improvement** |  | USD |
|  |  | *Total Direct expenses*  |  USD |  |
|  |  | *Social and medical insurance funds*  | % |  |
|  |  | *Transportation*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Management expenses*  | % |  |
|  |  | *Total* |   |  |
|  |  | *Estimated benefit*  | % |  |
|  |  | **Total**  |  |  |
|  |  | **Total (1+2+3+4)** |  USD |  |
|  |  | ***Total excluding VAT: USD*** |

Note: *The costs of the Bidder shall include all the costs, including: materials and/or equipment, salaries, social payments, indirect expenses*

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| Bidder  |
| (office, signature, name, forename)  |

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