|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0102–2-1-1**

**General construction works. (SAC mark)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | | 2 | | 3 | | | | | 4 | | 5 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | **1. Dismantling works.**  **1.1 Dismantling of constructions.** | | | | |  | |  | |
| 1 | | RpCO56A | | Dismantling: wooden joinery (doors, windows, shutters, boxes, roller blinds, casings, etc.) (door dismantling). | | | | | m2 | | 12,90 | |
| 2 | | RpCP45A | | Dismantling of metal doors and windows. | | | | | kg | | 160,00 | |
| 3 | | RpCO56A | | Dismantling: wooden joinery (doors, windows, shutters, boxes, roller blinds, casings, etc.) (dismantling of wooden cabinets). | | | | | m2 | | 4,50 | |
| 4 | | RpCO56A | | Dismantling: wooden joinery (doors, windows, shutters, boxes, roller blinds, casings, etc.) (dismantling of the door frame). | | | | | m2 | | 4,70 | |
| 5 | | RpCG29D | | Demolition of masonry walls by breaking for creating openings in the masonry. | | | | | m3 | | 0,17 | |
| 6 | | RpCK41A | | Removal of flooring made of wooden planks, boards. | | | | | m2 | | 9,40 | |
| 7 | | RpCH32B | | Disassembly of wooden ceilings and roof elements – disassembly of the roof truss with removal of all components, including sorting of the resulting materials. | | | | | m2 | | 9,40 | |
| 8 | | RpCO56C | | Dismantling: wooden linings, asbestos cement, MDF, HDF, etc., on walls or suspended ceilings, doors, etc. (dismantling of the ventilation duct made of drywall panels). | | | | | m2 | | 1,70 | |
| 9 | | RpCH32B | | Disassembly of wooden floors and roof elements – disassembly of the roof truss with removal of all components, including sorting of the resulting materials. | | | | | m2 | | 1,70 | |
| 10 | | RpCG29C | | Demolition of masonry walls made of solid bricks, aerated concrete (AAC), ceramic blocks, or lightweight concrete, GVP bricks, excluding scaffolding and cleaning of the bricks. | | | | | m3 | | 11,30 | |
| 11 | | RpCO56A | | Dismantling: wooden joinery (doors, windows, shutters, boxes, roller blinds, casings, etc.) (demolition of partition walls made of wooden planks). | | | | | m2 | | 56,00 | |
| 12 | | Market price | | Dismantling and reassembly of the furniture set from the chemistry classroom in another room, relocation at a distance of up to 60 meters. | | | | | set | | 1,00 | |
| 13 | | RpCJ35A | | Removal of interior or exterior plasters scraped from walls or ceilings. | | | | | m2 | | 401,00 | |
|  | |  | | **1.1 Total Dismantling of constructions** | | | | |  | |  | |
|  | |  | | **1.2 Dismantling. Flooring** | | | | |  | |  | |
| 14 | | RpCK42B | | Removal of cold flooring made of mosaic, in continuous field or mosaic tiles. | | | | | m2 | | 4,50 | |
| 15 | | RpCK42A | | Removal of cold flooring made of concrete or cement mortar. | | | | | m2 | | 4,50 | |
| 16 | | RpCK41A | | Removal of flooring made of wooden planks, boards. | | | | | m2 | | 100,50 | |
| 17 | | RpCH32B | | Removal of wooden floors and roof elements – disassembly of the roof truss with the removal of all components, including sorting of the resulting materials. | | | | | m2 | | 100,50 | |
| 18 | | RpCG29A | | Demolition of masonry walls made of bricks or aerated concrete (AAC) with a thickness of 6-8 cm (dismantling of a brick pillar250\*250\*150(h)) | | | | | m2 | | 3,20 | |
| 19 | | RpCK42C | | Removal of cold flooring made of concrete tiles, marble, stone, ceramic tiles, etc. | | | | | m2 | | 57,10 | |
| 20 | | RpCK41A | | Removal of flooring made of wooden planks and boards. | | | | | m2 | | 6,40 | |
| 21 | | RpCH32B | | Removal of wooden ceilings and roof elements – disassembly of the roof truss with removal of all components, including sorting of the resulting materials. | | | | | m2 | | 6,40 | |
| 22 | | RpCK41C | | Removal of PVC carpet flooring with or without textile backing, carpet, etc. | | | | | m2 | | 64,80 | |
| 23 | | RpCK42A | | Removal of cold flooring made of concrete or cement mortar. | | | | | m2 | | 64,80 | |
| 24 | | RpIzC45B | | Removal of insulating materials or protections: granular (slag, gravel, or similar). | | | | | m3 | | 3,89 | |
|  | |  | | **1.2 Total Dismantling of Flooring** | | | | |  | |  | |
|  | |  | | **1.3 Dismantling. Sewer trench** | | | | |  | |  | |
| 25 | | RCsB22A | | Cutting of reinforced concrete slabs or elements with a thickness of up to 15 cm. | | | | | m | | 34,00 | |
| 26 | | RpCK42B | | Removal of cold flooring made of mosaic, in continuous field or mosaic tiles. | | | | | m2 | | 5,00 | |
| 27 | | RpCK42A | | Removal of cold flooring made of concrete or cement mortar. | | | | | m2 | | 5,00 | |
| 28 | | RpCA01A | | Manual excavation of soil in confined spaces, with a width of less than 1.00 m and a maximum depth of 1.5 m, with a vertical slope, for polygonal foundation pits, trenches, channels, etc., carried out in quantities of up to 20 cubic meters with unsupported embankments. | | | | | m3 | | 1,25 | |
|  | |  | | **1.3 Total Dismantling of the Sewer Trench** | | | | |  | |  | |
|  | |  | | **1.4 Dismantling. Openings in walls** | | | | |  | |  | |
| 29 | | RCsB29S k=1,21 | | Drilling of through holes in brick and stone masonry using a diamond core drill machine with a diameter of: 190 mm (Dn230 mm). | | | | | *pcs* (pieces) | | 8,00 | |
| 30 | | RCsB29S k=1,47 | | Drilling of through holes in brick and stone masonry using a diamond core drill machine with a diameter of: 190 mm (Dn280 mm). | | | | | *pcs* (pieces) | | 1,00 | |
| 31 | | RCsB29K | | Drilling of through holes in brick and stone masonry using a diamond core drill machine with a diameter of: 120 mm | | | | | *pcs* (pieces) | | 1,00 | |
|  | |  | | **1.4 Total Openings in Walls** | | | | |  | |  | |
|  | |  | | **1.5 Dismantling. Debris waste** | | | | |  | |  | |
| 32 | | TsC03G1 | | Mechanical excavation with an excavator of 0.40-0.70 cubic meters, with an internal combustion engine and hydraulic control, in soil with natural moisture, unloading into category III terrain vehicles. | | | | | 100 m3 | | 0,34 | |
| 33 | | TRI1AA04C3 | | Loading of materials from group A – light and small by throwing – from the ramp or land into category 3 vehicles. | | | | | t | | 13,60 | |
| 34 | | TsI50A9 | | Transport of soil with a 5-ton dump truck over a distance of 9 km. | | | | | t | | 68,00 | |
|  | |  | | **1.5 Total Dismantling of Debris Waste** | | | | |  | |  | |
|  | |  | | **Total 1. Dismantling** | | | | |  | |  | |
|  | |  | | **2. Increasing the door opening GU-1 - 2 units** | | | | |  | |  | |
| 35 | | RCsU06F | | Execution of trenches up to 5 cm deep in stone or reinforced concrete walls, measuring 5 x 100 cm2 | | | | | m | | 6,60 | |
| 35 | | RCsB21C k=0,36 | | Mechanical drilling of holes with a diameter of 5 cm in concrete elements, with a thickness of 30 cm (Dn 1.8 cm). | | | | | *pcs* (pieces) | | 30,00 | |
| 37 | | RpCU02A | | Steel beam lintels, installed in masonry, including cutting the beams to size. | | | | | kg | | 344,02 | |
| 38 | | CL57A | | Installation and fixation of embedded parts in monolithic reinforced concrete: with a weight of less than 4 kg. | | | | | kg | | 27,50 | |
| 39 | | Market price | | Nut M16 | | | | | *pcs* (pieces) | | 60,00 | |
| 40 | | Market price | | Washer 16 | | | | | *pcs* (pieces) | | 60,00 | |
| 41 | | CC03A | | Installation of welded mesh at heights of 35 meters or less, on walls and diaphragms, with mesh weight up to 3 kg/m² (mesh 5 Bp500B, with 100x100 mm openings). | | | | | kg | | 73,68 | |
| 42 | | CF15A | | Interior and exterior polished plasters, applied manually, with M 150-T cement mortar, 2 cm average thickness, on walls made of concrete or brick, with flat surfaces (group 3..4 cm). | | | | | m2 | | 8,00 | |
| 43 | | CF17B k=3 | | Various works – thickness difference, ± 5 mm, in the layer of primer applied to walls, executed with M150 mortar. | | | | | m2 | | 8,00 | |
|  | |  | | **Total 2. Increasing the door opening GU-1 – 2 units** | | | | |  | |  | |
|  | |  | | **3. Bricking up door openings** | | | | |  | |  | |
| 44 | | CD51C | | Masonry made of bricks, size 250 x 120 x 65, for partition walls reinforced with a thickness of 1/2 brick, up to a height of 4 meters. | | | | | 100m2 | | 0,14 | |
| 45 | | CL57A | | Installation and fastening of embedded parts in monolithic reinforced concrete: with a weight under 4 kg (Df-1). | | | | | kg | | 4,10 | |
| 46 | | CC03A | | Installation of welded meshes at heights less than or equal to 35 meters, on walls and diaphragms, with mesh weight up to 3 kg/m² (5 Bp500B mesh, with 150x150 mm openings). | | | | | kg | | 57,68 | |
| 47 | | IzF10A | | Thermal insulation layer for terraces, roofs, and floors, made of thermal insulation boards from AAC, perlite, fiber perlite, izobeton, etc. (hemp). | | | | | m2 | | 0,75 | |
| 48 | | CF17C | | Various works – layer of fiberglass felt applied to the surface of prefabricated AAC elements, glued with PVA adhesive, including the primer layer. | | | | | m2 | | 3,60 | |
|  | |  | | **Total 3. Walling up of door openings.** | | | | |  | |  | |
|  | |  | | **4. Concrete casting of the opening in the slab above the basement.** | | | | |  | |  | |
| 49 | | RCsU06F | | Execution of grooves up to 5 cm deep in stone or reinforced concrete walls, measuring 5 x 100 cm². | | | | | m | | 1,74 | |
| 50 | | CA04F | | Cast-in-place concrete for slabs, beams, and columns, prepared with a concrete batching plant or ready-mix concrete according to art. CA01 and poured using traditional methods (C16/20). | | | | | m3 | | 0,20 | |
| 51 | | CC02M | | Reinforcements made of OB 37 steel rebar, shaped in construction site workshops, with bar diameters up to 8 mm, and installed in slabs at heights less than or equal to 35 meters, excluding constructions executed with sliding formwork. | | | | | kg | | 0,80 | |
| 52 | | CC02N | | Reinforcements made of OB 37 steel rebar, shaped in construction site workshops, with bar diameters over 8 mm, and installed in slabs at heights less than or equal to 35 meters, excluding constructions executed with sliding formwork. | | | | | kg | | 13,64 | |
| 53 | | CB02C | | Formwork made of reusable panels, with backing from short and undersized softwood boards, for concrete pouring in slabs and beams, exclusively for supports at heights up to 20 meters inclusive. | | | | | m2 | | 0,60 | |
| 54 | | CB11A | | Supports with extendable props from inventory, used for installing prefabricated slabs, hollow-core slabs, for pouring partially or fully monolithic floors with beams, or for monolithic beams with prefabricated floors of the PE 3100 R type. | | | | | *pcs* (pieces) | | 1,00 | |
|  | |  | | **Total 4. Concrete casting of the opening in the floor slab above the basement.** | | | | |  | |  | |
|  | |  | | **5. Sealing of openings in wooden floors.** | | | | |  | |  | |
| 55 | | CE40A | | Installation of the frame elements made of beams (bars) with antiseptic treatment. | | | | | m3 | | 0,24 | |
| 56 | | CN50A | | Fireproof treatment of timber; trusses, arches, beams, rafters, purlins. | | | | | m3 | | 0,24 | |
| 57 | | Market price | | WB Domax 70\*75\*155 support | | | | | *pcs* (pieces) | | 2,00 | |
| 58 | | Market price | | Anchor with nut 10\*180. | | | | | *pcs* (pieces) | | 3,00 | |
| 59 | | CF18A | | Wall cladding with gypsum plasterboards, with a board thickness of 12.5 mm, applied to brickwork or AAC, in rooms with normal humidity (on smooth surfaces) (ceiling cladding with gypsum boards, 9.5 mm thick). | | | | | m2 | | 3,40 | |
| 60 | | IzF14D | | Soundproofing layer for suspended ceilings made with mineral wool boards for general insulation, simply placed on the underside of the suspended ceiling (basalt wool boards, 35 kg/m³, thickness 150 mm). | | | | | m2 | | 1,80 | |
|  | |  | | **Total 5. Sealing of openings in wooden floors.** | | | | |  | |  | |
|  | |  | | **6. Installation of partition walls Pd.1.** | | | | |  | |  | |
| 61 | | CD72A corect | | Plain partition walls made of gypsum plasterboard (PGC) with a thickness of 75-125 mm on a simple metal frame, with PGC cladding on both sides without insulation, up to a height of 4 meters (laminated chipboard 18 mm, edges covered with ABS edge banding 2 mm – 19.0 m²; gypsum board 12.5 mm thick – 19.0 m²; UW profile 75; CW profile 75). | | | | | m2 | | 19,00 | |
| 62 | |  | | Demountable Minifix with eccentric. | | | | | *pcs* (pieces) | | 35,00 | |
| 63 | | CE40A | | Installation of frame elements made of beams (bars) with antiseptic treatment (wooden batten 45x70 mm for door opening reinforcement). | | | | | m3 | | 0,022 | |
| 64 | | CN50A | | Fireproof treatment of timber; trusses, arches, beams, rafters, purlins. | | | | | m3 | | 0,022 | |
| 65 | | CG06A adaptiv | | Oak or beech wood baseboards, cleaned and mounted on wooden dowels fixed with brass screws in rooms with areas larger than 16 m², horizontal baseboards with a maximum height of 15 cm on walls (laminated chipboard 18 mm, 57x3300 mm). | | | | | m | | 23,10 | |
|  | |  | | **Total 6. Installation of partition walls Pd1.** | | | | |  | |  | |
|  | |  | | **7. Installation of partition walls Pd.2, Pd.3.** | | | | |  | |  | |
| 66 | | CD72A corect | | Plain partition walls made of gypsum plasterboard (PGC) with a thickness of 75-125 mm on a simple metal frame, with PGC cladding on both sides without insulation, up to a height of 4 meters (laminated chipboard 18 mm, edges covered with ABS edge banding 2 mm – 24.0 m²; gypsum board 12.5 mm thick – 24.0 m²; UW profile 75; CW profile 75). | | | | | m2 | | 24,00 | |
| 67 | | СF59A adaptiv | | Cladding of surfaces with a layer of gypsum plasterboard (PGC) with the execution of a simple flat metal frame, up to a height of 4 meters: walls without insulation (laminated chipboard 18 mm, edges covered with ABS edge banding 2 mm, perforated with holes from Dn100 to Dn250 with edges covered with melamine edge banding; CW profile 75). | | | | | m2 | | 14,00 | |
| 68 | | Market price | | Demountable Minifix with eccentric. | | | | | *pcs* (pieces) | | 70,00 | |
| 69 | | CE40A | | Installation of frame elements made of beams (bars) with antiseptic treatment (wooden batten 45x70 mm for reinforcing the door opening). | | | | | m3 | | 0,044 | |
| 70 | | CN50A | | Fireproof treatment of timber; trusses, arches, beams, rafters, purlins. | | | | | m3 | | 0,044 | |
| 71 | | CG06A adaptiv | | Oak or beech wood baseboards, cleaned and mounted on wooden dowels fixed with brass screws in rooms with areas larger than 16 m², horizontal baseboards with a maximum height of 15 cm on walls (laminated chipboard 18 mm, 57x3300 mm). | | | | | m | | 46,20 | |
|  | |  | | **Total 7. Installation of partition walls Pd.2, Pd.3.** | | | | |  | |  | |
|  | |  | | **8. Windows.** | | | | |  | |  | |
| 72 | | RpCO08G | | Review and replacement of hardware for wooden windows, single, double, or coupled with stay bars (window locking mechanisms) (replacement of existing casement hardware with tilt-and-turn hardware (with 3 openings)). | | | | | *pcs* (pieces) | | 14,00 | |
| 73 | | RpCQ01E adaptiv | | Replacement of single-glazed windows, 4-6 mm thick, in panes smaller than 0.50 m², with putty and nails, installed on wooden frames, for areas over 5 m² (replacement of existing double-glazed windows with float glass double glazing 4mm + 16mm + 4mm Low-E/4S, filled with krypton or argon, including elastic seals). | | | | | m2 | | 34,50 | |
|  | |  | | **Total 8. Windows.** | | | | |  | |  | |
|  | |  | | **9. Doors.** | | | | |  | |  | |
| 74 | | CK03A adaptiv | | Interior wooden doors with a single leaf, mounted on linings, and balcony doors, including waterproof and thermal insulation of the frame, installed on existing door frames in buildings up to 35 meters high (door with plywood panel and glass, with transom, metal frame 2 mm thick, no threshold, handle - Hafele Startec, Stainless Steel, model LDH2170, U-1, U-2). | | | | | m2 | | 9,54 | |
| 75 | | CK03A adaptiv | | Interior wooden doors with a single leaf, mounted on linings, and balcony doors, including waterproof and thermal insulation of the frame, installed on existing door frames in buildings up to 35 meters high (solid door with laminated plywood panel, metal frame 2 mm thick, no threshold, handle - Hafele Startec, Stainless Steel, model LDH2170, U-3). | | | | | m2 | | 1,89 | |
| 76 | | CK21A | | Doors made from aluminum profiles, including the necessary reinforcements and accessories, installed in masonry of any kind, for buildings up to 35 meters high, with a single leaf, and a frame area up to 7 m² (glass door in an aluminum frame, U-4). | | | | | m2 | | 5,67 | |
|  | |  | | **Total 9. Doors.** | | | | |  | |  | |
|  | |  | | **10. Floors.** | | | | |  | |  | |
|  | |  | | **10.1 Type 1 Flooring.** | | | | |  | |  | |
| 77 | | Market price | | Perimeter band with Tia adhesive (thickness 8 mm, height = 100 mm), pl.15 p.2. | | | | | m | | 2,00 | |
| 78 | | CG01A | | Support layer for flooring made of M 100-T cement mortar, 3 cm thick, with a finely troweled finish (4 cm grade). | | | | | m2 | | 4,50 | |
| 79 | | CG01A1 k=2 | | Support layer for flooring made of M 100-T cement mortar, 3 cm thick, with a finely troweled finish. The difference in addition or subtraction for each 0.5 cm of the support layer made from M 100-T mortar is added or subtracted accordingly. | | | | | m2 | | 4,50 | |
| 80 | | CG17D | | Flooring made of ceramic tiles, including the adhesive mortar support layer, executed on surfaces larger than 16 m² (porcelain tiles 600x1200 mm, thickness 10 mm). | | | | | m2 | | 4,50 | |
| 81 | | CI14A | | Linear elements made of ceramic tiles applied with adhesive (porcelain tile skirting, height = 100 mm). | | | | | m | | 2,00 | |
|  | |  | | **10.2 Type 2 Flooring.** | | | | |  | |  | |
| 82 | | TsC54B | | Foundation layer made of crushed stone. | | | | | m3 | | 10,69 | |
| 83 | | CG22A | | Plain concrete flooring, class C7.5/5 (BC 7.5/B100), 10 cm thick, continuously poured on-site with a troweled finish, in rooms with an area larger than 16 m² (8 cm grade). | | | | | m2 | | 100,90 | |
| 84 | | CG22A5 k=2 | | Plain concrete flooring, class C7.5/5 (BC 7.5/B100), 10 cm thick, continuously poured on-site with a troweled finish, in rooms with an area larger than 16 m². The difference in addition or subtraction for each cm of poured concrete, in the case of using ready-mixed concrete, is added or subtracted accordingly. | | | | | m2 | | -100,90 | |
| 85 | | IzF53A | | Manual execution of the floor support with an insulating layer made of extruded foam polystyrene boards, 100 mm thick, in a single layer (extruded polystyrene, grade 30 mm). | | | | | m2 | | 100,90 | |
| 86 | | Market price | | Perimeter band with Tia adhesive (thickness 8 mm, height = 100 mm), pl.15 p.2. | | | | | m | | 50,00 | |
| 87 | | CG01A | | Support layer for floors made of M 100-T cement mortar, 3 cm thick, with a finely troweled finish (grade 4 cm). | | | | | m2 | | 100,50 | |
| 88 | | CG01A1 k=2 | | Support layer for floors made of M 100-T cement mortar, 3 cm thick, with a finely troweled finish. The difference in addition or subtraction for each 0.5 cm of the support layer made of M 100-T mortar will be added or subtracted accordingly. | | | | | m2 | | 100,50 | |
| 89 | | CG56A corect | | Self-leveling screed mixture "Nivelir": thickness 10mm (leveling with adhesive for tiles, thickness 5mm). | | | | | m2 | | 100,50 | |
| 90 | | CG56A1 corect k=5 | | Correction to the CG56A standard: subtract 1mm thickness (leveling with adhesive for tiles). | | | | | m2 | | -100,50 | |
| 91 | | CG08A | | Plastic floor coverings installed on an existing clean support, including PVC skirting boards, in rooms with areas larger than 16 m², with PVC carpet glued with pre-glue (heterogeneous PVC carpet type Tarkett with the following properties: anti-slip >R9, antibacterial, antistatic, heavy traffic, thickness - 2mm, wear layer - 0.7mm, width - 2m, support profile - 130.0 m). | | | | | m2 | | 109,50 | |
|  | |  | | **10.3 Type 3 Flooring.** | | | | |  | |  | |
| 92 | | CG56A corect | | Self-leveling compound "Nivelir" screed: thickness 10mm (leveling with adhesive for tiles). | | | | | m2 | | 56,20 | |
| 93 | | CG08A | | Plastic flooring installed on an existing cleaned surface, including PVC skirting boards, in rooms with areas greater than 16 m², with PVC carpet glued with Prenadez (heterogeneous PVC carpet type Tarkett with the following properties: - anti-slip >R9; - antibacterial; - antistatic; - heavy traffic; - thickness - 2mm; - wear layer - 0.7mm; - 2m width; support profile - 50.0 m). | | | | | m2 | | 61,20 | |
|  | |  | | **10.4 Type 4 Flooring.** | | | | |  | |  | |
| 94 | | IzF53A | | Manual execution of the flooring support with a thermal insulation layer made of extruded foam polystyrene boards, 100 mm thickness, in a single layer (extruded polystyrene, thickness 50 mm). | | | | | m2 | | 61,80 | |
| 95 | | Market price | | Perimeter band with Tia adhesive (thickness 8 mm, height = 100 mm), plate 15, page 2. | | | | | m | | 45,00 | |
| 96 | | CG01A | | Support layer for flooring made of M 100-T cement mortar, 3 cm thick with a finely scratched surface (thickness 4.5 cm). | | | | | m2 | | 61,80 | |
| 97 | | CG01A1 k=3 | | Support layer for flooring made of M 100-T cement mortar, 3 cm thick with a finely scratched surface. The difference in addition or subtraction for each 0.5 cm of the support layer of M 100-T mortar is added or subtracted accordingly. | | | | | m2 | | 61,80 | |
| 98 | | CG56A corect | | Self-leveling screed mixture "Nivelir": thickness 10mm (leveling with adhesive for tiles, thickness 5mm). | | | | | m2 | | 61,80 | |
| 99 | | CG56A1 corect k=5 | | The correction to standard CG56A: reduced to 1mm thickness (leveling with tile adhesive). | | | | | m2 | | -61,80 | |
| 100 | | CG08A | | Plastic flooring installed on an existing, cleaned substrate, including PVC window sills, in rooms with surfaces larger than 16 sqm, using PVC flooring adhered with contact adhesive (heterogeneous PVC flooring of the Tarkett type with the following properties: anti-slip >R9, antibacterial, antistatic, suitable for heavy traffic, thickness 2mm, wear layer 0.7mm, width 2m, support profile 45.0m). | | | | | m2 | | 66,30 | |
|  | |  | | **10.5 Floor rehabilitation after pipe installation.** | | | | |  | |  | |
| 101 | | TsC54A | | Sand foundation layer. | | | | | m3 | | 1,50 | |
| 102 | | TsC54B | | Crushed stone foundation layer. | | | | | m3 | | 0,50 | |
| 103 | | CG22A1 | | Plain concrete flooring, class C7.5/5 (BC 7.5/B100), with a thickness of 10 cm, continuously laid, troweled, poured on-site, in rooms with a surface area of ≤16 m² (B7.5). | | | | | m2 | | 5,00 | |
| 104 | | CG01A | | Support layer for flooring made of M 150-T cement mortar, 3 cm thick, with a finely troweled surface (total thickness 5 cm). | | | | | m2 | | 2,00 | |
| 105 | | CG01A1 k=4 | | Support layer for flooring made of M 150-T cement mortar, 3 cm thick, with a finely troweled surface. Any difference of ±0.5 cm in the support layer thickness is added or deducted accordingly. | | | | | m2 | | 2,00 | |
|  | |  | | **Total 10. Flooring.** | | | | |  | |  | |
|  | |  | | **11. Interior finishing.** | | | | |  | |  | |
|  | |  | | **11.1 Ceiling.** | | | | |  | |  | |
| 106 | | CK29F | | Suspended ceilings made of prefabricated "Armstrong" panels, including the grid system (Sahara Vector type, semi-concealed structure, Sahara Vector panels 600×600×19 mm). | | | | | m2 | | 196,80 | |
| 107 | | СF59D | | Cladding of surfaces with a layer of PGC, including the installation of a simple flat metal frame, up to 4 m in height: ceilings without insulation (gypsum board, thickness 9.5 mm). | | | | | m2 | | 40,90 | |
| 108 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 40,90 | |
| 109 | | CF57A | | Manual application of "Eurofin" gypsum-based putty, 1.0 mm thick, on wall, column, and ceiling surfaces. | | | | | m2 | | 40,90 | |
| 110 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 40,90 | |
| 111 | | CN06A | | Interior painting with water-based vinyl copolymer paint, applied in 2 coats on existing putty, manually executed (acrylic paint with enhanced washability). | | | | | m2 | | 40,90 | |
|  | |  | | **11.2 Wall.** | | | | |  | |  | |
|  | |  | | **11.2.1 Detail "1".** | | | | |  | |  | |
| 112 | | CF05A | | Interior plaster, 3 cm thick, applied on wire mesh, troweled, using M 100-T cement-lime mortar for the finish layer, M 50-T cement-lime mortar for the base layer, and M 10-T lime-cement mortar for the visible layer, manually executed on flat surfaces, including the installation of steel reinforcement and mesh, applied to walls (total thickness 5 cm). | | | | | m2 | | 402,00 | |
| 113 | | CF17B k=4 | | Various works – thickness adjustment, ±5 mm for the base layer applied to walls, executed with M100 mortar. | | | | | m2 | | 402,00 | |
| 114 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 402,00 | |
| 115 | | CF17C | | Various works – fiberglass felt layer applied to the surface of prefabricated aerated concrete elements, adhered with PVA glue, including the primer layer. | | | | | m2 | | 402,00 | |
| 116 | | CF50B | | Interior plaster, 5 mm thick, manually applied using a gypsum-based dry mix on walls and partitions, with manual mortar preparation (gypsum-based mortar). | | | | | m2 | | 402,00 | |
| 117 | | CF57A | | Manual application of "Eurofin" gypsum-based putty, 1.0 mm thick, on wall, column, and ceiling surfaces. | | | | | m2 | | 402,00 | |
| 118 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 402,00 | |
| 119 | | CN06A | | Interior painting with water-based vinyl copolymer paint, applied in 2 coats on existing putty, manually executed (acrylic paint with enhanced washability). | | | | | m2 | | 402,00 | |
|  | |  | | **11.2.2 Detail "2".** | | | | |  | |  | |
| 120 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 42,40 | |
| 121 | | CF57A | | Manual application of "Eurofin" gypsum-based putty, 1.0 mm thick, on wall, column, and ceiling surfaces. | | | | | m2 | | 42,40 | |
| 122 | | CN53A | | Priming of interior wall and ceiling surfaces. | | | | | m2 | | 42,40 | |
| 123 | | CN06A | | Interior painting with water-based vinyl copolymer paint, applied in 2 coats on existing putty, manually executed (acrylic paint with enhanced washability). | | | | | m2 | | 42,40 | |
|  | |  | | **11.2.3 Cladding around washbasins.** | | | | |  | |  | |
| 124 | | CI06C | | Cladding with glazed, unglazed, matte, or glossy tiles of the same color and format, with dimensions ranging from 15×15 cm to 30×30 cm, applied on flat surfaces of walls and columns, including sills and edges, with alternating joints, in rooms larger than 10 m², fixed with adhesive for tile installation (light-colored porcelain stoneware, format 1200×600). | | | | | m2 | | 11,7 | |
|  | |  | | **11.2.4 Reinforcement of corners on sills.** | | | | |  | |  | |
| 125 | | CK18C | | Installation of moldings on aluminum paneling (perforated aluminum corner trims). | | | | | m | | 170,00 | |
| 126 | | CK32B | | Blinds (shutters) for windows, venetian blinds made of anodized aluminum, including accessories / Fabric roller blinds, mounted on the window frame, color RAL 9016, 50% transparency. | | | | | m2 | | 72,00 | |
|  | |  | | **Total 11 Interior finishing.** | | | | |  | |  | |
|  | |  | | **Total** | | | | |  | |  | |
|  |  | |  | |  | |  | | |  | |  |
|  |  | |  | |  | |  | | |  | |  |
|  | |  | | Total | | lei | |  | |  |  | |
|  | |  | | Social insurance | | 24 % | |  | |  |  | |
|  | |  | | Transport expenses | | % | |  | |  |  | |
|  | |  | | Supply and storage expenses | | % | |  | |  |  | |
|  | |  | | Total | |  | |  | |  |  | |
|  | |  | | Overhead expenses | | % | |  | |  |  | |
|  | |  | | Total | |  | |  | |  |  | |
|  | |  | | Estimated profit | | % | |  | |  |  | |
|  | |  | | Total | |  | |  | |  |  | |
|  | |  | | **Total**  **Including salary** | | | | | | | | |

|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0131–2-1-2**

*Interior water supply and sewage networks (IWSSN).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | 1. **Dismantling.** |  |  |
| 1 | RpSC05A | Dismantling of a ceramic washbasin, including accessories. | *pcs* (pieces) | 1,00 |
| 2 | RpSD02A | Dismantling of a wall-mounted faucet with D=1/2" for multiple functions. | *pcs* (pieces) | 1,00 |
| 3 | RpSA04A | Dismantling of an existing unplasticized polyvinyl chloride (PVC) heavy-duty pipe inside the building, at connections, risers, or distribution pipes, with a diameter of 20 mm. | m | 13,00 |
| 4 | RpSA03A | Dismantling of an existing galvanized steel pipe inside the building, with a diameter of 20 mm. | m | 10,00 |
| 5 | RpSB01A | Dismantling of cast iron pipes and shaped connection fittings for sewage, with a diameter of 50 mm. | m | 5,00 |
| 6 | RpSB03A | Dismantling of a lightweight unplasticized polyvinyl chloride (PVC) pipe with a diameter of 50 mm. | m | 11,00 |
|  |  | **Total 1. Dismantling.** |  |  |
|  |  | 1. **Sanitary works – water supply/sewage.** |  |  |
| 7 | SD19A | Check valve with a straight seat and threaded sockets, with a diameter of 15 mm (ball valve). | *pcs* (pieces) | 6,00 |
| 8 | SA17A | Plastic pipe joined by polyfusion welding, used in distribution pipelines for residential and socio-cultural buildings, with a diameter of 20 mm (polypropylene pipe PP-R PN10). | m | 30,00 |
| 9 | SF01C | Performing a pressure tightness test on the hot or cold-water installation made of heavy-duty polyvinyl chloride (PVC) or plastic pipes, with a diameter of 16-110 mm. | m | 30,00 |
| 10 | SF05C | Flushing of the cold or hot water installation made of plastic pipes, with a diameter of 20-75 mm. | m | 30,00 |
| 11 | RpIF09C1 | Insulation of pipelines with longitudinally cut thermal insulation sleeves, with a diameter and thickness starting from D=D=20 mm (thermal insulation tubes AF-D-022). | m | 30,00 |
| 12 | SA37B | Clamp for securing water and gas supply pipes, made of steel or PVC, mounted by embedding, for pipes with a diameter of 20 mm. | *pcs* (pieces) | 10,00 |
| 13 | SD04A | Single-handle mixer tap with a swivel spout, deck-mounted for a washbasin or sink, regardless of the closing mechanism, including models for people with disabilities, with a diameter of 1/2" (washbasin mixer tap). | *pcs* (pieces) | 6,00 |
| 14 | SB05E | Lightweight (U) unplasticized PVC pipe for sewage, joined by adhesive bonding, installed either exposed or embedded under the floor, with a diameter of 110 mm. | m | 10,00 |
| 15 | SB05C | Lightweight (U) unplasticized PVC pipe for sewage, joined by adhesive bonding, installed either exposed or embedded under the floor, with a diameter of 50 mm. | m | 80,00 |
| 16 | SF04A | Performing a tightness and functionality test on the sewage system made of cast iron drainage pipes, unplasticized lightweight polyvinyl chloride (PVC) pipes, or plastic material, including ductile iron pipes, with a diameter of up to 100 mm. | 10 m | 9,00 |
| 17 | SC04A | Semi-porcelain or sanitary porcelain washbasin, including models for people with disabilities, with a plastic drain pipe, mounted on brackets fixed to brick or aerated concrete block (BCA) walls (ceramic washbasin with a plastic bottle trap siphon). | *pcs* (pieces) | 6,00 |
|  |  | **Total 2. Sanitary works – water supply/sewage.** |  |  |
|  |  | *Total* | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | Supply and storage expenses | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total Construction Works** |  |  |
|  |  | **3. Installation Works** |  |  |
| 18 | SD04A adaptiv | Single-handle mixer tap with a swivel spout, deck-mounted for a washbasin or sink, regardless of the closing mechanism, including models for people with disabilities, with a diameter of 1/2" (instant water heater 3.5 kWh). | *pcs* (pieces) | 6,00 |
|  |  | *Total* | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | Supply and storage expenses | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 2 Construction Works** |  |  |
|  |  | **3. Equipment.** |  |  |
| 19 | Supplier price | Instant electric water heater, 230V, 13A, 3-3.5 kW, hot water performance 1.2-1.7 l/min. | set | 6,00 |
|  |  | Total |  |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 3. Equipment.** |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |

|  |  |  |
| --- | --- | --- |
|  | | |
|  | | |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  | |
| (name of the objective) |  | |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0154–2-1-3**

*Heating, ventilation, and air conditioning (HVAC).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | **1.1 Heating - Dismantling.** |  |  |
| 1 | RpIB12A | Dismantling of convectors with covers. | *pcs* (pieces) | 12,00 |
| 2 | RpIB12B | Dismantling of convector radiators with up to 25 elements. | *pcs* (pieces) | 1,00 |
| 3 | RpIC19B | Dismantling of black pipes for installations, welded for central heating systems in residential and socio-cultural buildings, for connecting appliances, distribution risers, etc., with a diameter of 1". | m | 55,00 |
| 4 | RpIC19C | Dismantling of black pipes for installations, welded for central heating systems in residential and socio-cultural buildings, for connecting appliances, distribution risers, etc., with a diameter of 1 1/2". | m | 28,00 |
|  |  | **Total 1. Heating - Dismantling.** |  |  |
|  |  | **1. 2 Heating** |  |  |
| 5 | IB06B | Steel radiators, monoblock, with a length of 1001 - 1500 mm (steel radiator with air valve, Type 22K/500/1200, "Vonova"). | *pcs* (pieces) | 11,00 |
| 6 | IB06B | Steel radiators, monoblock, with a length of 1001 - 1500 mm (steel radiator with air valve, Type 33K/500/1320, "Vonova"). | *pcs* (pieces) | 1,00 |
| 7 | IB20A | Support elements for heating units, mounted on brick walls. | *pcs* (pieces) | 12,00 |
| 8 | ID06A | Air vent valve with a removable key for central heating installations, with a nominal diameter of 3/8'' (radiator air vent). | *pcs* (pieces) | 12,00 |
| 9 | ID04A | Pass or check valve with sockets for central heating installations, with a nominal diameter of 15 mm (radiator plug). | *pcs* (pieces) | 12,00 |
| 10 | IC35C | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed for connecting heating units or appliances in central heating systems, with an outer diameter of 25x3.5 (dy18.0) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer). | m | 20,00 |
| 11 | IC35D | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed for connecting heating units or appliances in central heating systems, with an outer diameter of 32x4.4 (dy23.2) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer). | m | 44,00 |
| 12 | IC36E | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed in risers for central heating systems, with an outer diameter of 50x6.9 (dy36.2) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer). | m | 33,00 |
| 13 | IE03A | Performing a pressure tightness test on the supply pipes for heating appliances (fan heaters, convector heaters, skirting convectors, etc.) with a diameter ranging from 3/8" to 1". | m | 20,00 |
| 14 | IE03B | Performing a pressure tightness test on the supply pipes for heating appliances (fan heaters, convector heaters, skirting convectors, etc.) with a diameter ranging from 1 1/4" to 2". | m | 77,00 |
| 15 | IE04A | Performing an expansion-contraction and functionality test on the supply pipes for heating appliances (fan heaters, convector heaters, skirting convectors, etc.) with a diameter ranging from 3/8" to 1". | m | 20,00 |
| 16 | IE04B | Performing an expansion-contraction and functionality test on the supply pipes for heating appliances (fan heaters, convector heaters, skirting convectors, etc.) with a diameter ranging from 1 1/4" to 2". | m | 77,00 |
| 17 | IC35C | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed for connecting heating units or appliances in central heating systems, with an outer diameter of 25x3.5 (dy18.0) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer, fittings 40%). | m | 20,80 |
| 18 | IC35D | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed for connecting heating units or appliances in central heating systems, with an outer diameter of 32x4.4 (dy23.2) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer, fittings 40%). | m | 37,60 |
| 19 | IC36E | High-density reinforced polyethylene or reinforced or unreinforced polypropylene pipe, installed in risers for central heating systems, with an outer diameter of 50x6.9 (dy36.2) mm (PP-RCT STABI PLUS PN28 polypropylene pipe with an oxygen barrier layer, fittings 40%). | m | 21,20 |
| 20 | IC37H | Three-way connecting fittings made of polyethylene, joined by pressing with threading to the reinforced polyethylene pipe, with an outer diameter of 36.2x23.2x36.2 mm (tee). | *pcs* (pieces) | 24,00 |
| 21 | IC37H | Three-way connecting fittings made of polyethylene, joined by pressing with threading to the reinforced polyethylene pipe, with an outer diameter of 32x4.4 (dy 23.2)/25 mm (adapter from polypropylene to metal pipe). | *pcs* (pieces) | 10,00 |
| 22 | IC37H | Three-way connecting fittings made of polyethylene, joined by pressing with threading to the reinforced polyethylene pipe, with an outer diameter of 50x6.9 (dy 36.2)/40 mm (adapter from polypropylene to metal pipe). | *pcs* (pieces) | 5,00 |
| 23 | CK26C | Sills mounted on windows or doors made of plastic materials (decorative box for laying polypropylene pipes). | m | 80,00 |
| 24 | IC42A | Supports and fixing devices for supporting pipes, boilers, appliances, and containers, with a weight of up to 2 kg per unit. | kg | 103,00 |
|  |  | **Total 1.2 Heating** |  |  |
|  |  | **Total Heating works** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total Heating works** |  |  |
|  |  | **2. Ventilation** |  |  |
|  |  | **2.1 Sanitary works A.1** |  |  |
| 25 | IC40F | Brace for securing steel pipes for central heating or gas installations, mounted with 2 1/2" - 4" expansion plugs, on concrete wall anchors (quick-release clamp FK100). | *pcs* (pieces) | 2,00 |
| 26 | VB01A | Regulating butterfly valve, installed on circular ducts type CFC-I, CFC-II, with a perimeter of 800 - 1600 mm (check valve RSK100). | *pcs* (pieces) | 1,00 |
| 27 | VB27A | Protective cap for circular ducts with a perimeter of 230 - 700 mm (hood made of 0.5 mm galvanized sheet steel, Dn100 mm). | *pcs* (pieces) | 1,00 |
| 28 | VB15A | Frame with adjustable blinds, pre-assembled, with a perimeter of 800 - 2500 mm, mounted on masonry (grille RAG 150x150). | *pcs* (pieces) | 1,00 |
| 29 | VA02E | Manufacturing and installation of straight ventilation ducts, made of galvanized sheet metal or aluminum with a thickness of 0.3 - 2 mm, having a circular section perimeter of 250 - 700 mm (galvanized sheet metal, thickness 0.5 mm). | m2 | 2,51 |
| 30 | VA13F | Special fitting (elbow), made of galvanized sheet metal or aluminum with a thickness of 0.5 - 2 mm, having a circular section perimeter of 250 - 400 mm (galvanized sheet metal, 0.5 mm). | m2 | 0,20 |
| 31 | VA17F | Special fitting (reducer), made of galvanized sheet metal or aluminum with a thickness of 0.5 - 2 mm, having a circular section perimeter of 100/150x150 mm (galvanized sheet metal, 0.5 mm). | m2 | 0,15 |
|  |  | **Total 2.1 Sanitary works A.1** |  |  |
|  |  | **2.2 Sanitary works A.2** |  |  |
| 32 | IC40F | Brace for securing steel pipes for central heating or gas installations, mounted with 2 1/2" - 4" expansion plugs, on concrete wall anchors (quick-release clamp FK250). | *pcs* (pieces) | 2,00 |
| 33 | VB01A | Regulating butterfly valve, installed on circular ducts type CFC-I, CFC-II, with a perimeter of 800 - 1600 mm (check valve RSK250). | *pcs* (pieces) | 1,00 |
| 34 | VB27B | Protective cap for circular ducts with a perimeter of 700 - 1600 mm (stainless steel hood with 0.7 mm insulation, Dn250 mm). | *pcs* (pieces) | 1,00 |
| 35 | VA02E | Manufacturing and installation of straight ventilation ducts, made of galvanized sheet metal or aluminum with a thickness of 0.3 - 2 mm, having a circular section perimeter of 250 - 700 mm (stainless steel sheet, thickness 0.5 mm). | m2 | 4,70 |
| 36 | VA13F | Special fitting (elbow), made of galvanized sheet metal or aluminum with a thickness of 0.5 - 2 mm, having a circular section perimeter of 250 mm (stainless steel sheet, 0.5 mm). | m2 | 0,62 |
| 37 | VB15B | Frame with simultaneously adjustable blinds, pre-assembled, with a perimeter of 800 - 2500 mm, mounted on the duct (door grille MV450/2). | *pcs* (pieces) | 3,00 |
|  |  | **Total 2.2 Sanitary works A.2** |  |  |
|  |  | **2.3 Thermal insulation for ventilation ducts.** |  |  |
| 38 | IzH05B | Insulation of pipes with glass wool, mineral wool type I or type P sewn on one side, on galvanized wire mesh, made on-site, with thicknesses of 20, 30, 40, 50, or 60 mm, for pipes with a circumference over the thermal insulation of 30 mm (ISOTEC KIM-AL 50 mm). | m2 | 4,71 |
|  |  | **Total 2.3 Thermal insulation for ventilation ducts.** |  |  |
|  |  | **Total 2. Ventilation – Sanitary works, thermal insulation.** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 2. Ventilation – Sanitary works, thermal insulation.** |  |  |
|  |  | **3. Ventilation installation works.** |  |  |
|  |  | **3.1. RA 1 - RA 14** |  |  |
| 39 | VC37D | Installation of household air conditioning units (split systems) with a motor power of up to 8.5 kW, using ladders (heat recovery ventilation systems). | *pcs* (pieces) | 8,00 |
|  |  | **Total 3.1 RA 1-RA 14** |  |  |
|  |  | **3.2. A 1** |  |  |
| 40 | VC05A | Installation of axial fans with leaf blades (clover type), in explosion-proof construction, low-pressure axial fans, both directly driven with coupling, with an airflow of 2000-10,800 m³/h and an electric motor power of 0.37 - 1.1 kW (K100EC Sileo fan). | *pcs* (pieces) | 1,00 |
| 41 | VB18A | Noise silencer, rectangular, with a perimeter of 1000 - 2000 mm (LDC 100-900 noise silencer). | *pcs* (pieces) | 1,00 |
|  |  | **Total 3.2 A 1** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 3. Ventilation installation works.** |  |  |
|  |  | **4. Equipment.** |  |  |
|  |  | **4.1 RA 1-RA 14** |  |  |
| 42 | Market price | Supply and exhaust ventilation systems with heat recovery, Climtec RD 200+standard. | set | 8,00 |
|  |  | **4.2 A 1** |  |  |
| 43 | Market price | Fan L=55 m³/h; H=300 Pa; N=0.084 kW; n=3300 rpm, K100EC Sileo. | *pcs* (pieces) | 1,00 |
| 44 | Market price | Regulator, RE1.5. | *pcs* (pieces) | 1,00 |
| 45 | Market price | Noise silencer LDC 100–900. | *pcs* (pieces) | 1,00 |
|  |  | **4.3 Air conditioning** |  |  |
| 46 | Market price | Air cooler L=1000 m³/h, evaporation power - 2.8 l/h, tank volume = 60 l, 220-240V/50Hz, N=125W, TROTEC AIR COOLER PAE 81. | *pcs* (pieces) | 3,00 |
|  |  | **Total 4. Equipment.** |  |  |
|  |  | *Total* | lei |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 4. Equipment.** |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |

|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0161–2-1-4**

*Electric power equipment. Interior electric lighting (EPE/IEL).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | **1. Construction works** |  |  |
| 1 | RpCU05F1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 16 - 25 cm, for mechanical penetration work. | *pcs* (pieces) | 2,00 |
| 2 | RpCU05I1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 26 - 50 cm, for mechanical penetration work. | *pcs* (pieces) | 5,00 |
| 3 | RpEJ09A | Filling of openings in walls with gypsum mortar. | *pcs* (pieces) | 7,00 |
| 4 | RpEJ08C | Execution of grooves with a depth of up to 5 cm in stone or reinforced concrete walls, with dimensions of 5x50 cm. | m | 60,00 |
| 5 | RpEJ09D | Filling of grooves in walls up to 50 cm². | m | 60,00 |
|  |  | **Total 1. Construction works** |  |  |
|  |  | *Total* | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | **Total 1. Construction works** |  |  |
|  |  | **2. Installation works** |  |  |
| 6 | 08-03-526-2 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 100A (ВА 47-29/3/C50A, ВА47-29/3/C40A). | *pcs* (pieces) | 2,00 |
| 7 | 08-03-526-1 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 25 A. | *pcs* (pieces) | 2,00 |
| 8 | 08-03-572-8 | Execution control panel block, type cabinet or distribution point (cabinet), mounted in a niche, with height and width up to 700x850 mm (metal distribution panel, built-in, with a lock, for installation of 36 modules, ЩРв-36з, IP31) РП-1. | *pcs* (pieces) | 1,00 |
| 9 | 08-03-525-2 | Load switch or package switch in a metal enclosure, mounted on wall or column structures, with a connection clamp quantity of up to 9, current up to 100 A (load switch ВН32-3Р/40А). | *pcs* (pieces) | 1,00 |
| 10 | 08-03-526-1 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 25 A. | *pcs* (pieces) | 23,00 |
| 11 | 08-03-572-8 | Execution control panel block, type cabinet or distribution point (cabinet), mounted in a niche, with height and width up to 700x850 mm (metal distribution panel, built-in, with a lock, for installation of 36 modules, ЩРв-36з, IP31) РП-2. | *pcs* (pieces) | 1,00 |
| 12 | 08-03-525-2 | Load switch or package switch in a metal enclosure, mounted on wall or column structures, with up to 9 connection clamps, current up to 100 A (load switch ВН32-3Р/32А). | *pcs* (pieces) | 1,00 |
| 13 | 08-03-526-1 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 25 A. | *pcs* (pieces) | 12,00 |
| 14 | 08-03-572-8 | Execution control panel block, type cabinet or distribution point (cabinet), mounted in a niche, with height and width up to 700x850 mm (metal distribution panel, built-in, with a lock, for installation of 12 modules, ЩРв-12з, IP31) ЩВ-1. | *pcs* (pieces) | 1,00 |
| 15 | 08-03-526-1 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 25 A. | *pcs* (pieces) | 9,00 |
| 16 | 08-03-572-8 | Execution control panel block, type cabinet or distribution point (cabinet), mounted in a niche, with height and width up to 700x850 mm (metal distribution panel, built-in, with a lock, for installation of 12 modules, ЩРв-12з, IP31) ЩВ-2. | *pcs* (pieces) | 1,00 |
| 17 | 08-03-526-1 | Mono-, bi-, or tripole automatic circuit breaker, mounted on wall or column structures, with current up to 25 A. | *pcs* (pieces) | 5,00 |
| 18 | 08-03-529-1 | DC contactor for construction, with current up to 160 A (compact contactor, КМИ 10960, 9A). | *pcs* (pieces) | 1,00 |
| 19 | 08-03-594-17 | Lighting fixture with fluorescent lamps in suspended ceilings, mounted in recessed parts, with 4 lamps in the lighting fixture (LED recessed light, 220V, 48W, IP20, 600x600mm, Frame). | 100 *pcs* (pieces) | 0,30 |
| 20 | 08-03-594-3 | Lighting fixture with fluorescent lamps, mounted separately on pivots, with up to 4 lamps in the lighting fixture (ceiling LED panel, 220V, 48W, IP20, 595x595x110mm, LED PANEL FRAME). | 100 *pcs* (pieces) | 0,09 |
| 21 | Market price | LED recessed light, 220V, 48W, IP20, 600x600mm, Frame. | *pcs* (pieces) | 30,00 |
| 22 | Market price | Ceiling LED panel, 220V, 48W, IP20, 595x595x110mm, LED PANEL FRAME. | *pcs* (pieces) | 9,00 |
| 23 | 08-02-412-1 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 2.5 mm² (cable with copper conductors ВВГнг-LS (3х1.5) mm²). | 100 m | 4,00 |
| 24 | 08-02-412-1 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 2.5 mm² (cable with copper conductors ВВГнг-LS (3х2.5) mm²). | 100 m | 3,30 |
| 25 | 08-02-412-1 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 2.5 mm² (cable with copper conductors ВВГнг-LS (4х1.5) mm²). | 100 m | 0,50 |
| 26 | 08-02-412-2 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 6 mm² (cable with copper conductors ВВГнг-LS (5х4) mm²). | 100 m | 0,58 |
| 27 | 08-02-412-3 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 16 mm² (cable with copper conductors ВВГнг-LS (5х10) mm²). | 100 m | 0,58 |
| 28 | 08-02-412-1 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 2.5 mm² (cable with copper conductors ВВГнг-FRLS (3х1.5) mm²). | 100 m | 0,75 |
| 29 | Market price | Cable with copper conductors and PVC insulation ВВГнг-LS, cross-section 3х1.5 mm². | m | 400,00 |
| 30 | Market price | Cable with copper conductors and PVC insulation ВВГнг-LS, cross-section 3х2.5 mm². | m | 330,00 |
| 31 | Market price | Cable with copper conductors and PVC insulation ВВГнг-LS, cross-section 4х1.5 mm². | m | 50,00 |
| 32 | Market price | Cable with copper conductors and PVC insulation ВВГнг-LS, cross-section 5х4 mm². | m | 58,00 |
| 33 | Market price | Cable with copper conductors and PVC insulation ВВГнг-LS, cross-section 5х10 mm². | m | 58,00 |
| 34 | Market price | Cable with copper conductors and PVC insulation ВВГнг-FRLS, cross-section 3х1.5 mm². | m | 75,00 |
| 35 | 08-02-409-1 | Vinyl plastic pipe on constructed installations, mounted on walls and columns, fixed with nails, with a diameter of up to 25 mm (PVC pipe 25 mm). | 100 m | 7,90 |
| 36 | 08-02-409-1 | Vinyl plastic pipe on constructed installations, mounted on walls and columns, fixed with nails, with a diameter of up to 32 mm (PVC pipe 32 mm). | 100 m | 0,58 |
| 37 | 08-03-591-9 | Socket for plug, surface-mounted, for concealed wiring, 16A, 220V, IP20. | 100 *pcs* (pieces) | 0,27 |
| 38 | 08-03-591-9 | Computer socket, surface-mounted, for concealed wiring, 16A, 220V, IP20. | 100 *pcs* (pieces) | 0,36 |
| 39 | 08-03-591-5 | Double-pole switch, surface-mounted, for concealed wiring, IP20. | 100 *pcs* (pieces) | 0,03 |
| 40 | 08-03-591-2 | Single-pole switch, surface-mounted, for concealed wiring, IP20. | 100 *pcs* (pieces) | 0,10 |
| 41 | 08-03-591-9 | Universal socket block, surface-mounted, for concealed wiring, 3 modules, VIMAR- у 54303. | 100 *pcs* (pieces) | 0,03 |
| 42 | Market price | Universal in-floor socket block for 3 modules, VIMAR-y54303. | *pcs* (pieces) | 3,00 |
| 43 | Market price | Box for installing switches and outlets for concealed wiring. | *pcs* (pieces) | 85,00 |
| 44 | Market price | Junction box IP44 with terminal blocks. | *pcs* (pieces) | 130,00 |
|  |  | **Total 2 Installation works** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 2 Installation works** |  |  |
|  |  | **3. Equipment.** |  |  |
| **45** | Market price | Automatic three-pole circuit breaker ВА47-29/3Р/С50. | *pcs* (pieces) | 1,00 |
| 46 | Market price | Automatic three-pole circuit breaker ВА47-29/3Р/С40. | *pcs* (pieces) | 1,00 |
| 47 | Market price | Automatic three-pole circuit breaker ВА47-29/3Р/С20. | *pcs* (pieces) | 2,00 |
| 48 | Market price | Metal box for installing 36 modules, built-in, with a lock, ЩРв-36з-1, IP31. | *pcs* (pieces) | 1,00 |
| 49 | Market price | Load switch ВН32-3Р/40. | *pcs* (pieces) | 1,00 |
| 50 | Market price | Automatic single-pole circuit breaker ВА47-29/1Р/С20. | *pcs* (pieces) | 1,00 |
| 51 | Market price | Automatic single-pole circuit breaker ВА47-29/1Р/В10. | *pcs* (pieces) | 7,00 |
| 52 | Market price | Automatic single-pole circuit breaker ВА 47–29 1Р/С10. | *pcs* (pieces) | 1,00 |
| 53 | Market price | Differential automatic two-pole circuit breaker АВДТ 32С/16/30mA. | *pcs* (pieces) | 10,00 |
| 54 | Market price | Differential automatic two-pole circuit breaker АВДТ 32С/20/10mА | *pcs* (pieces) | 3,00 |
| 55 | Market price | Differential automatic two-pole circuit breaker АВДТ 32С/10/10mА | *pcs* (pieces) | 1,00 |
| 56 | Market price | Metal box for installing 36 modules, built-in, with a lock, ЩРв-36з-1, IP31. | *pcs* (pieces) | 1,00 |
| 57 | Market price | Load switch ВН32-3Р/32. | *pcs* (pieces) | 1,00 |
| 58 | Market price | Automatic single-pole circuit breaker ВА47-29/1Р/В10. | *pcs* (pieces) | 2,00 |
| 59 | Market price | Differential automatic two-pole circuit breaker АВДТ 32С/16/30mА | *pcs* (pieces) | 7,00 |
| 60 | Market price | Differential automatic two-pole circuit breaker АВДТ 32С/20/10mА | *pcs* (pieces) | 3,00 |
| 61 | Market price | Metal box for installing 12 modules, built-in, with a lock, ЩРв-12з, IP31. | *pcs* (pieces) | 1,00 |
| 62 | Market price | Automatic three-pole circuit breaker ВА47-29/3Р/С16. | *pcs* (pieces) | 1,00 |
| 63 | Market price | Independent release device РН-47. | *pcs* (pieces) | 1,00 |
| 64 | Market price | Automatic single-pole circuit breaker ВА 47-29 1Р/С10. | *pcs* (pieces) | 7,00 |
| 65 | Market price | Metal box for installing 12 modules, built-in, with a lock, ЩРв-12з, IP31. | *pcs* (pieces) | 1,00 |
| 66 | Market price | Automatic three-pole circuit breaker ВА47-29/3Р/С16. | *pcs* (pieces) | 1,00 |
| 67 | Market price | Independent release device РН-47. | *pcs* (pieces) | 1,00 |
| 68 | Market price | Automatic single-pole circuit breaker ВА 47-29 1Р/С10. | *pcs* (pieces) | 3,00 |
| 69 | Market price | Compact contactor, IP54, 9A, КМИ 10960. | *pcs* (pieces) | 1,00 |
| 70 | Supplier price | Lighting fixture for illuminating school boards with a wall distance support, dimensions 1445x630x250 mm, with 48 LED modules of 20 W, 2150 lm, IP41, type LE-SBO-14-020-7005-20D or similar. | *pcs* (pieces) | 3,00 |
|  |  | **Total 3. Equipment** |  |  |
|  |  | *Total* |  |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 3. Equipment** |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |

|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0180–2-1-5**

*Fire signaling and security (FSS).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | **1. Installation works** |  |  |
| 1 | 10-08-001-06 | Receiver devices: "ПС" reception and control devices, for signaling. Concentrator: base unit for 10 zones (reception and control device for 4 zones, SmartLine036-4). | *pcs* (pieces) | 1,00 |
| 2 | 11-03-001-01 | Devices installed on metal structures, panels, and consoles: device, weight, up to: 5 kg (expansion module for 8 zones, SmartLine/8Z). | *pcs* (pieces) | 1,00 |
| 3 | 11-03-001-01 | Devices installed on metal structures, panels, and consoles: device, weight, up to: 5 kg (Ethernet module SmartLan/485). | *pcs* (pieces) | 1,00 |
| 4 | 10-08-002-02 | Automatic "ПС" detectors: smoke, photoelectric, radioisotope, light, in standard execution (external LED indicator). | *pcs* (pieces) | 6,00 |
| 5 | 10-06-037-05 | Cabinets, boxes, and enclosures for installations through pipes: wall-mounted cabinet, size, mm, up to: 640x840 (power supply BPS 24140). | *pcs* (pieces) | 1,00 |
| 6 | 11-03-001-01 | Devices installed on metal structures, panels, and consoles: device, weight, up to: 5 kg (relay module REL1INT). | *pcs* (pieces) | 5,00 |
| 7 | 10-08-002-02 | Automatic "ПС" detectors: smoke, photoelectric, radioisotope, light, in standard execution (fire smoke detector ID-100). | *pcs* (pieces) | 23,00 |
| 8 | 10-08-002-01 | Automatic "ПС" detectors: thermal electrocontact, magnetic contact, in standard execution (manual fire detector IC010). | *pcs* (pieces) | 3,00 |
| 9 | 10-08-003-01 | Capacity signaling device (optical-acoustic indicator). | *pcs* (pieces) | 1,00 |
| 10 | 10-08-003-01 | Capacity signaling device (siren). | *pcs* (pieces) | 3,00 |
| 11 | 08-01-121-1 | Stationary acid battery, type: С-1, СК-1 (12V, 17 Ah battery). | *pcs* (pieces) | 4,00 |
| 12 | 10-01-055-02 | Cable and conductor installation on walls: Cable, weight per meter up to 1 kg, on a brick wall: fire-resistant, shielded cable, 1x2x0.8mm², КПСЭнг(А) FRLS. | 100 m | 3,00 |
| 13 | Market price | Fire-resistant, shielded cable, 1x2x0.8mm², КПСЭнг(А) FRLS. | m | 300,00 |
| 14 | 08-02-412-1 | Introduction of conductors into metal pipes and conduits: the first conductor, single-core or multi-core, in a common braid, with a total cross-section of up to 2.5 mm² (cable with copper conductors ВВГнг(А)-FRLS, cross-section 2x1.5 mm²). | 100 m | 0,70 |
| 15 | Market price | Fire-resistant cable with copper conductors and PVC insulation ВВГнг(A)-FRLS, cross-section 2x1.5 mm². | m | 70,00 |
| 16 | 08-02-410-1 | Polyethylene pipe, mounted on the floor support, with a diameter of up to 25 mm, PVC 20 mm. | 100 m | 3,30 |
| 17 | 08-01-087-3 | Metal constructions under equipment (fastening materials). | t | 0,01 |
|  |  | **Total 1 Installation works** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 1 Installation works** |  |  |
|  |  | **2. Equipment** |  |  |
| **18** | Market price | Reception and control device for 4 zones, SmartLine036-4. | *pcs* (pieces) | 1,00 |
| 19 | Market price | Expansion module for 8 zones, SmartLine/8Z. | *pcs* (pieces) | 1,00 |
| 20 | Market price | Ethernet module SmartLan/485. | *pcs* (pieces) | 1,00 |
| 21 | Market price | External LED indicator. | *pcs* (pieces) | 6,00 |
| 22 | Market price | Power supply BPS 24140. | *pcs* (pieces) | 1,00 |
| 23 | Market price | Relay module REL1INT. | *pcs* (pieces) | 3,00 |
| 24 | Market price | Fire smoke detector ID100. | *pcs* (pieces) | 23,00 |
| 25 | Market price | Manual fire detector IC010. | *pcs* (pieces) | 3,00 |
| 26 | Market price | Optical-acoustic indicator. | *pcs* (pieces) | 1,00 |
| 27 | Market price | Siren. | *pcs* (pieces) | 5,00 |
| 28 | Market price | 12V, 17 Ah battery. | *pcs* (pieces) | 4,00 |
|  |  | **Total 2. Equipment** |  |  |
|  |  | *Total* |  |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 2. Equipment** |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |

|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0181–2-1-6**

*Automatic security signaling (ASS).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | **1. Construction works** |  |  |
| 1 | RpCU05F1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 16 - 25 cm, for mechanical penetration work. | *pcs* (pieces) | 2,00 |
| 2 | RpCU05I1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 26 - 50 cm, for mechanical penetration work. | *pcs* (pieces) | 8,00 |
| 3 | RpEJ09A | Filling of openings in walls with gypsum mortar. | *pcs* (pieces) | 10,00 |
|  |  | **Total 1. Construction works** |  |  |
|  |  | *Total* | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | **Total 1. Construction works** |  |  |
|  |  | **2. Installation works** |  |  |
| 4 | 10-04-067-22 | Color television equipment: Transmission television camera (IP camera, outdoor, HIKVISION, DS-2CD2955FWD-1). | *pcs* (pieces) | 6,00 |
| 5 | 10-04-067-22 | Color television equipment: Transmission television camera (16-channel video recorder, TRASSIR MININVR ANY IP 16). | *pcs* (pieces) | 1,00 |
| 6 | 10-03-013-05 | Central equipment: Service telecommunications switch (Switch 16 port, 10/100 Mbps). | *pcs* (pieces) | 1,00 |
| 7 | N/a | The software will be already installed, without additional payment. | *pcs* (pieces) | 1,00 |
| 8 |  | Distribution box IP54, 100x100x70 mm. | *pcs* (pieces) | 10,00 |
| 9 |  | RJ 45 connector. | *pcs* (pieces) | 20,00 |
| 10 |  | Patch cord 0.5 m. | *pcs* (pieces) | 10,00 |
| 11 | 10-06-037-05 | Wall-mounted cabinet, size, mm, up to: 640x840 (uninterruptible power supply (UPS) device, 700VA). | *pcs* (pieces) | 1,00 |
| 12 | 10-06-037-05 | Wall-mounted cabinet, size, mm, up to: 600x600 (6U switching cabinet). | *pcs* (pieces) | 1,00 |
| 13 | 10-01-055-02 | Cable and conductor installation on walls: Cable, weight per meter up to 1 kg, on a brick wall: network cable 4x2x0.51 mm² UTP-CAT.5. | 100 m | 9,00 |
| 14 |  | Network cable 4x2x0.51 mm² UTP-CAT.5. | m | 900,00 |
| 15 | 08-02-410-1 | Polyethylene pipe, mounted on the floor support, with a diameter of up to 25 mm (PVC pipe 20 mm). | 100 m | 9,00 |
| 16 | 08-01-087-3 | Metal constructions under equipment (fastening materials). | t | 0,005 |
| 17 | 11-04-002-01 | Device weight, up to: 0.015 t (system unit BM-01B-OP). | *pcs* (pieces) | 1,00 |
| 18 | 11-03-001-01 | Devices installed on metal structures, panels, and consoles: device, weight, up to: 5 kg (equipment installed in the system unit). | *pcs* (pieces) | 6,00 |
| 19 | 11-08-001-04 | Connection of electrical networks to devices by soldering (wire connection). | 100 *pcs* (pieces) | 0,06 |
|  |  | **Total 2 Installation works** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 2 Installation works** |  |  |
|  |  | **3. Equipment** |  |  |
| 20 | Market price | Outdoor IP camera, HIKVISION, DS-2CD2955FWD-1. | *pcs* (pieces) | 6,00 |
| 21 | Market price | Network video recorder with 16 channels. | *pcs* (pieces) | 1,00 |
| 22 | Market price | Switch 16 port, 10/100 Mbps. | *pcs* (pieces) | 1,00 |
| 23 | Market price | HDD hard drive 6 TB. | *pcs* (pieces) | 1,00 |
| 24 | Market price | Uninterruptible power supply (UPS) device, 700 VA. | *pcs* (pieces) | 1,00 |
| 25 | Market price | 6U switching cabinet. | *pcs* (pieces) | 1,00 |
| 26 | Market price | System unit BM-01B-OP. | *pcs* (pieces) | 1,00 |
| 27 | Market price | System power supply unit, 650W, APS-650CB. | *pcs* (pieces) | 1,00 |
| 28 | Market price | Motherboard Z370M-ITX/AC 1151V2. | *pcs* (pieces) | 1,00 |
| 29 | Market price | Intel® Core™ i7-8700K processor with cooler. | *pcs* (pieces) | 1,00 |
| 30 | Market price | GTX 1070 8192MB graphics card. | *pcs* (pieces) | 1,00 |
| 31 | Market price | 2 TB hard drive, ST2000DM011. | *pcs* (pieces) | 1,00 |
| 32 | Market price | 8 GB DDR3 RAM, 1 GB modules. | *pcs* (pieces) | 1,00 |
| 33 | Market price | 28" TFT monitor. | *pcs* (pieces) | 2,00 |
| 34 | Market price | Operating system: Windows 10. | *pcs* (pieces) | 1,00 |
| 35 | Market price | SLIM STAR 110 keyboard. | *pcs* (pieces) | 1,00 |
| 36 | Market price | Computer mouse. | *pcs* (pieces) | 1,00 |
|  |  | **Total 3. Equipment** |  |  |
|  |  | *Total* |  |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 3. Equipment** |  |  |
|  |  | **4. Start-up adjustment.** |  |  |
| 37 | 10-06-068-15 | Adjustment of synchronous digital transmission systems. Adjustment of the control and guidance system: Configuration and adjustment of network components. | *pcs* (pieces) | 1,00 |
|  |  | **Total 4. Starting adjustment.** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |

|  |  |
| --- | --- |
| ***Interior repair and modernization works of the science classrooms at the LT "Onisifor Ghibu"***  ***mun. Orhei*** |  |
| (name of the objective) |  |

***Bill of quantities of works***

**LOCAL ESTIMATE № 0256 0190–2-1-7**

*Communications, computer networks (CCN).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| №  crt. | Standard symbol and Resource code. | Works and expenses. | U.M. | Quantity according to project data. |
|

| 1 | 2 | 3 | 4 | 5 |
| --- | --- | --- | --- | --- |
|  |  | **1. Construction works** |  |  |
| 1 | RpCU05F1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 16 - 25 cm, for mechanical penetration work. | *pcs* (pieces) | 2,00 |
| 2 | RpCU05I1 | Execution of penetrations for pipes or tie rods in stone or reinforced concrete walls with a thickness of 26 - 50 cm, for mechanical penetration work. | *pcs* (pieces) | 5,00 |
| 3 | RpEJ09A | Filling of openings in walls with gypsum mortar. | *pcs* (pieces) | 7,00 |
| 4 | RpEJ08C | Execution of grooves with a depth of up to 5 cm in stone or reinforced concrete walls, with dimensions of 5x50 cm2 | m | 12,00 |
| 5 | RpEJ09D | Filling of grooves in walls up to 50 cm². | m | 12,00 |
|  |  | **Total 1. Construction works** |  |  |
|  |  | *Total* | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | **Total 1. Construction works** |  |  |
|  |  | **2. Installation works** |  |  |
| 6 | 10-06-037-05 | Wall-mounted cabinet, size, mm, up to: 600x600 (15U switching cabinet). | *pcs* (pieces) | 1,00 |
| 7 | 10-03-013-05 | Central equipment: Service telecommunications switch (Switch 24 port). | *pcs* (pieces) | 1,00 |
| 8 |  | 1U rackmount router, 4xGigabit Ethernet, 1xSFP. | *pcs* (pieces) | 1,00 |
| 9 | 11-03-001-01 | Devices installed on metal structures, panels, and consoles: device, weight, up to: 5 kg (24-port patch panel, Cat. 5e). | *pcs* (pieces) | 1,00 |
| 10 | Market price | 19" optical panel with 4 ports. | *pcs* (pieces) | 1,00 |
| 11 | Market price | 1U cable organizer. | *pcs* (pieces) | 3,00 |
| 12 | Market price | 0.5 m optical patch cord. | *pcs* (pieces) | 1,00 |
| 13 | Market price | 1 m optical patch cord. | *pcs* (pieces) | 13,00 |
| 14 | 10-06-037-05 | Wall-mounted cabinet, size, mm, up to: 640x840 (uninterruptible power supply (UPS) device, 3000VA). | *pcs* (pieces) | 1,00 |
| 15 | 08-03-591-8 | Surface-mounted socket, for open installation (220V socket block, 6 euro ports, 19"). | 100 *pcs* (pieces) | 0,01 |
| 16 | 08-03-591-9 | Surface-mounted socket for concealed installation (computer socket RJ-45 UTP5E). | 100 *pcs* (pieces) | 0,13 |
| 17 | 10-01-055-02 | Cable and conductor installation on walls: Cable, weight per meter up to 1 kg, on a brick wall: UTP cat. 5e/CU cable. | 100 m | 6,20 |
| 18 | 10-01-055-02 | Cable and conductor installation on walls: Cable, weight per meter up to 1 kg, on a brick wall: fiber optic cable FO-2. | 100 m | 0,35 |
| 19 | Market price | UTP Cat. 5e/CU cable. | m | 620,00 |
| 20 | Market price | fiber optic cable FO-2. | m | 35,00 |
| 21 | 08-02-410-1 | Polyethylene pipe, mounted on the floor support, with a diameter of up to 25 mm (PVC pipe 20 mm). | 100 m | 0,50 |
| 22 | 08-02-409-2 | Vinyl plastic pipe on installed constructions, mounted on walls and columns, fixed with nails, with a diameter of up to 50 mm (PVC pipe 40 mm). | 100 m | 0,05 |
| 23 | 08-01-087-3 | Metal constructions under equipment (fastening materials). | t | 0,005 |
| 24 | 08-02-32596-5 | Metal conduit on walls and ceilings (cable channel). | 100 m | 0,30 |
| 25 | Market price | Cable channel. | m | 30,00 |
|  |  | **Total 2 Installation works** |  |  |
|  |  | Total | lei |  |
|  |  | *Social insurance* | 24 % |  |
|  |  | *Transport expenses* | % |  |
|  |  | *Supply and storage expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Overhead expenses* | % |  |
|  |  | *Total* |  |  |
|  |  | *Estimated profit* | % |  |
|  |  | *Total* |  |  |
|  |  | **Total 2 Installation works** |  |  |
|  |  | **3. Equipment** |  |  |
| 26 | Market price | 19U switching cabinet. | *pcs* (pieces) | 1,00 |
| 27 | Market price | Switch 24-port. | *pcs* (pieces) | 1,00 |
| 28 | Market price | 24-port patch panel, Cat. 5e. | *pcs* (pieces) | 1,00 |
| 29 | Market price | Uninterruptible power supply (UPS) device, 3000 VA. | *pcs* (pieces) | 1,00 |
|  |  | **Total 3. Equipment** |  |  |
|  |  | *Total* |  |  |
|  |  | *Supply and storage expenses* | 1,2 % |  |
|  |  | **Total 3. Equipment** |  |  |
|  |  |  |  |  |
|  |  | **Total**  **Including salary** |  |  |