

**Restoration and rehabilitation of the
building having the status of
historical monument - The Water
Tower in Soldanesti, and further
turning it into a museum**

(Project Title)

Form no.1
WinCmeta

LOCAL BILL OF QUANTITIES No. 2-1-1

2. Construction works

№	Standard code and Resource code	Works and costs	M.U.	Design based quantity	Estimated cost, \$	
					Unit cost incl. wages	Total incl. wages
1	2	3	4	5	6	7
		1. Demolition works				
1	R4D02A	Manual cleaning of architectural details of difficult to remove pollution and particularly persistent layers of oil paint by dry method: flat, smooth and curved surface	m2	273.5000		
2	R4D01A	Washing the surface of architectural details with water: flat, smooth and curved surface: polished or sanded	10 m2	27.3500		
3	RCsO56A	Dismantling: wood joinery (doors)	m2	11.4000		
4	RCsO56A	Dismantling: wood joinery (windows)	m2	24.3600		
5	RCsG32A	Demolition of brick or AAC masonry walls 6-8 cm thick (unlocking 3 window openings)	m2	0.8100		
6	RCsK41C	Dismantling of cold floors made of concrete, marble, stone, tiles, ceramic tiles, etc.	m2	60.4000		
7	RCsK40A	Removing warm floors - floorboards, planks, etc.	m2	12.7000		
8	RCsI41B	Dismantling of roofing elements - metal sheet roofing, asbestos cement, PVC, cardboard, canvas, reed, etc., including cutting the recoverable sheets	m2	60,0000		
9	R5A01A	Unfolding the roof construction elements: slatted planks and spaced planks	10 m2	6,0000		
10	R5A01D	Unfolding the roof construction elements: plank rafters	2 m	10-2500		

1	2	3	4	5	6	7
11	R5A01E	Unfolding the roof construction elements: wall plates	2 m	2,4700		
12	RCsP44B	Dismantling metal constructions without recovering materials	kg	1,153,0000		
13	TrB05A2-9	Transportation, by direct carrying, of uneasy materials, weighing less than 25 kg, at a distance of 90 m	t	9.8000		
14	TRI1AA04 B3	Loading of group A materials - light and small, by throwing - from the field, in the wagon, category 3	t	9.8000		
15	TsI50B5	Transportation of garbage with a 5 t dump truck at a distance of 15 km	t	9.8000		
		<i>Total</i>	\$			
		Total Demolition work Including wages				
		2. Facade				
16	RMD06A	Masonry joints, with simple lime mortar, vintage brick masonry, with horizontal joints of 2.5 - 3.5 cm. width, vertical joints 1.25 - 1.75 cm, and depth of 3 cm (outer joints)	m2	273.5000		
17	RMD06A	Masonry joints, with simple lime mortar, vintage brick masonry, with horizontal joints of 2.5 - 3.5 cm, vertical joints 1.25 - 1.75 cm, and depth of 3 cm (exterior joints at cornices)	m2	30.2400		
18	R21A01A	Installation of tubular metal scaffolding	m2	273.5000		
19	R21A01B	Dismantling of tubular metal scaffolding	m2	273.5000		
		<i>Total</i>	\$			
		Total Facade Including wages				
		3. Reinforcing the brick walls inside				
20	RMA16A	Injecting lime paste + sand into the cracks and fissures with larger openings (over 2 mm) in walls, arches, brick vaults (average length on 1 facade - 9 lm - 9x4 = 36 m)	m	36.0000		
21	RCsB29A	Drilling holes in brick and stone masonry, using a diamond drill with a diameter of: 20 mm (average length 51 cm, K = 5.1 * 0.9 = 4.59)	pcs	607,0000		
22	RMA13B	PC 52 steel fittings for overconcreting of vaults, arches, domes, washers (highly required	kg	374,4800		

1	2	3	4	5	6	7
		elements) (reinforcement diam. 14 AIII)				
23	SUPPLIER price	“Screpa” glue	kg	80,0000		
24	RCsG17A	Reinforcing the load-bearing masonry, by coating with welded nets STM or STNB, with d = 4 mm, mortar M 50-T and mortar M 100-T, 4-6 cm thick	m2	252,0000		
25	RpCP21B apl	Edge protection, with metal corners of 50x50x5 mm, at the corners of the masonry	m	520,0000		
		<i>Total</i>	\$			
		Total Reinforcement of the brick walls inside Including wages				
		4. Floor elevation + 3,720, elevation + 7,390				
26	RMA20C	Digging horizontal ditches in massive brick walls to inscribe buried belts or terrace staples, or reinforced concrete lintels: ditch section 0.09-0.18 sqm inclusively	m	38.0000		
27	CL18A	Various metallic confections of rolled profiles, sheet, corrugated sheet, concrete steel, pipes for supports or coatings, totally or partially embedded in concrete (profile U14)	kg	467.4000		
28	RCsB29A	Drilling holes in brick and stone masonry, using a diamond drill with a diameter of: 14 mm (length 25 cm, $K = 2.5 * 0.9 = 2.25$)	pcs	18.0000		
29	RCsB29A	Drilling holes in brick and stone masonry, using a diamond drill with a diameter of: 16 mm (length 50 cm, $K = 5 * 0.9 = 4.5$)	pcs	36.0000		
30	CL18A	Various metallic confections from laminated profiles, sheet, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete (anchors diam. 16 AIII, diam. 14 AIII)	kg	65.4000		
31	CL18A	Various metallic confections from laminated profiles, sheet, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete (sheet gr. 12 mm)	kg	48.9600		
32	CL03A	Ready made beams with solid steel core, delivered fully assembled, mounted at heights up	t	1.1530		

1	2	3	4	5	6	7
		to 35 m, up to 1 t inclusive (double profile T № 22)				
33	IzD02A	Cleaning rust with metal wire brush from confections and constructions: lattice beams, trusses, braces	t	1.7300		
34	IzD03A	Painting metal confections and constructions made of 8 mm - 12 mm thick profiles, with one layer of lead minium paint, with hand brush	t	1.7300		
35	IzD04A	Painting metallic confections and constructions made of 8 mm - 12 mm thick profiles with oil paint in 2 layers, with hand brush	t	1.1730		
36	RCsB04D	Concrete commodities purchased from stations and cast by classical method into beams, ribs, slabs, floors, stairs, retaining walls, reinforced concrete bearings, floors, diaphragms, stair railings, etc., in existing buildings (concrete C 20)	m3	3.7000		
37	CB03E	Shuttering made of reusable panels, with 15 mm plywood for casting concrete into slabs and beams for constructions up to 20 m high inclusive, excluding supports	m2	37.0000		
38	CB11B	Supports with extensible inventory props , used for the installation of prefabricated boards, predals, for casting partially or totally monolithic floors with beams or for monolithic beams with prefabricated floors type PE 5100 R	pcs	74,0000		
39	CC03C	Installation of welded nets at heights less than or equal to 35 m, on boards (mesh 5 Bp1 50/50)	kg	120,1200		
40	RMB01B	Vintage brick masonry type V 28x14x4,5 cm, built in straight walls, with mortar	m3	1000		
		<i>Total</i>	\$			
		Total Floor elevation + 3,720, elevation + 7,390 Including wages				
		5. Reinforcement of existing reinforced concrete beams for the tank (var. 1				

1	2	3	4	5	6	7
41	RpCP21B apl	Edge protection, with metal corners of 100x100x10 mm, at the corners of the beams	m	50,0000		
42	CL18A	Various metallic confections from rolled profiles, sheet, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete (sheet gr. 18 mm)	kg	218.7200		
43	CL18A	Various metallic confections from rolled profiles, sheet, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete (sheet gr. 8 mm)	kg	180.7200		
		<i>Total</i>	\$			
		Total Reinforcement of existing reinforced concrete beams for the tank (var. 1 Including wages				
		6. New reinforced concrete beam for the tank (var. 2).				
44	RCsB04D	Concrete commodities purchased from stations and cast by classical means into beams, ribs, slabs, floors, stairs, retaining walls, reinforced concrete bearings, floors, diaphragms, stair ramps, etc., to existing buildings	m3	3.6000		
45	RCsC02B	Mixed formwork, from reusable panels, made of plywood, excluding supports, for reinforced concrete, for additions or restorations to existing constructions, columns with 15 mm plywood	m2	14.4000		
46	RCsD01D	Steel-concrete reinforcements OB 37, with a diameter of up to 8 mm inclusive, shaped in on site workshops, for foundations and erasures, mounted in existing construction elements. Shaping and mounting reinforcements in straight floors, columns, beams, etc. (diam. 8 AI)	kg	108.6400		
47	RCsD02D1	PC 52 steel-concrete reinforcements, with a diameter of over 8 mm, shaped in on site workshops for foundations and erasures, mounted in existing construction elements. Shaping and mounting reinforcements in	kg	772.8000		

1	2	3	4	5	6	7
		straight floors, columns, beams, etc. (diam. 28 AIII)				
48	CL18A	Various metallic confections of rolled profiles, sheet metal, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete	kg	320.4000		
		<i>Total</i>	\$			
		Total New reinforced concrete beam for the tank (var. 2). Including wages				
		7. Reinforced concrete beam under the frame				
49	RCsB04D	Concrete commodities purchased from stations and cast by classical means in beams, ribs, slabs, floors, stairs, retaining walls, reinforced concrete bearings, floors, diaphragms, stair ramps, etc., to existing buildings	m3	1.9000		
50	RCsC02B	Mixed formwork, from reusable panels, made of plywood, excluding supports, for reinforced concrete, for additions or restorations to existing constructions, columns with 15 mm plywood	m2	12.7000		
51	RCsD01D	Steel-concrete reinforcements OB 37, with a diameter of up to 8 mm inclusive, shaped in on site workshops for foundations and erasures, mounted in existing construction elements. Shaping and mounting reinforcements in straight floors, columns, beams, etc. (diam. 8 AI)	kg	42.2400		
52	RCsD02C	Steel-concrete reinforcements OB 37, with a diameter of over 8 mm, shaped in on site workshops, mounted in existing construction elements. Shaping reinforcements for straight floors, columns, beams, etc. (diam. 12AI)	kg	16,3200		
53	RCsD02D1	PC 52 steel-concrete reinforcements, with a diameter of over 8 mm, shaped in construction workshops for foundations and erasures, mounted in existing construction elements. Shaping and mounting reinforcements in straight floors, columns, beams, etc. (diam. 28 AIII)	kg	184.6300		

1	2	3	4	5	6	7
		<i>Total</i>	\$			
		Total Reinforced concrete beam under the frame Including wages				
		8. Finishing works				
		8.1. Interior walls				
54	CF50B	Interior plasters 5 mm thickness, manually executed, with dry plaster-based mixture, on the ceiling, mechanical preparation of the mortar	m2	214.6000		
55	CN53A	Priming the interior surfaces of the walls	m2	214.6000		
56	CF57A	Manual application of the plaster based on "Eurofin" plaster thickness 1.0 mm, on the surfaces of walls, columns and ceilings	m2	214.6000		
57	CN53A	Priming the interior surfaces of the walls	m2	214.6000		
58	CN06A	Interior paints with paint based on vinyl copolymers in an aqueous emulsion, applied in 2 layers on an existing trowel, manually executed	m2	214.6000		
		<i>Total</i>	\$			
		Total Interior walls Including wages				
		8.2. Inner slopes				
59	CK18C	Mounting the rods on aluminum paneling	m	123.4000		
60	CF50B	Interior plasterworks of 5 mm thickness, manually executed, with dry plaster-based mixture, on the ceiling, manual preparation of mortar	m2	60.9500		
61	CF17C	Various works - fiberglass sealing layer applied to the surface of AAC prefabricated elements glued to the pipe, including the priming layer	m2	60.9500		
62	CN53A	Priming the interior surfaces of the walls	m2	60.9500		
63	CF57A	Manual application of the "Eurofin" plaster with 1.0 mm thickness, on the surfaces of walls, columns and ceilings	m2	60.9500		
64	CN53A	Priming the interior surfaces of the walls	m2	60.9500		
65	CN06A	Interior paints with paint based on vinyl copolymers in an aqueous emulsion, applied in 2 layers on	m2	60.9500		

1	2	3	4	5	6	7
		an existing trowel, manually executed				
		<i>Total</i>	\$			
		Total Inner slopes Including wages				
		8.3. Flooring				
		8.3.1. Elevation - 2,980				
66	TsC54C	Gravel foundation layer	m3	2,3200		
67	DE18A	Pavements made of prefabricated concrete pavement slabs placed on a layer of dry mixture of cement and sand, at a ratio of 1: 6, articulated with dry mixture of cement and sand, layer thickness of 5 cm. Plywood thickness 7 cm	m2	15.5000		
		<i>Total</i>	\$			
		Total Elevation - 2,980 Including wages				
		8.3.2. Elevation 0.000				
68	TsC54C	Gravel foundation layer	m3	2,3200		
69	RCsB04D	Concrete commodities purchased from stations and cast by classical means in beams, ribs, slabs, floors, stairs, retaining walls, reinforced concrete bearings, floors, diaphragms, stair railings, etc., to existing buildings (concrete C 20)	m3	1,5500		
70	IzF04B	Hydro-insulated hot layer applied to terraces, roofs or foundations and erasures, on soils with no groundwater, including scaffolding and slabs of current waterproofing on horizontal or inclined surfaces up to 40% flat or curved, with bituminous cardboard, glued on the entire surface with bitumen mastic (Rubemast layer)	m2	15.5000		
71	CG47B	Floors made of ceramic tiles, including adhesive backing (dry mixture), plate size: up to 300 x 300 mm	m2	15.5000		
		<i>Total</i>	\$			
		Total Elevation 0.000 Including wages				
		8.3.3. Elevation + 3,720				
72	CC03C	Installation of welded nets at heights less than or equal to 35 m, for tiles (mesh 5x150x150 - weight 1.9 kg / m2)	kg	27.9500		

1	2	3	4	5	6	7
73	CD71C apl	Building exterior and interior walls of lightweight concrete stones on adhesive without cladding, with filling in gaps and cobwebs: for floor height up to 4 m (plugging the gap between metal beams)	m3	1.1800		
74	CG01A	Floor support layer made of cement mortar M 100-T 3 cm thick with finely smooth face (gr. 50 mm)	m2	14.7000		
75	CG01A1	Floor support layer made of 3 cm thick M 100-T cement mortar with a fine smooth face. 20 mm (K = 4) is added for the difference in plus or minus for every 0.5 cm of M 100-T mortar support layer	m2	14.7000		
76	CG47B	Floors made of ceramic tiles, including adhesive backing (dry mixture), plate size: up to 300 x 300 mm	m2	14.7000		
		<i>Total</i>	\$			
		Total Elevation + 3,720 Including wages				
		8.3.4. Elevation + 7,390				
77	CG47B	Floors made of ceramic tiles, including adhesive backing (dry mixture), plate size: up to 300 x 300 mm	m2	17.5000		
		<i>Total</i>	\$			
		Total Elevation + 7,390 Including wages				
		8.3.5. Elevation + 9,345				
78	CG47B	Floors made of ceramic tiles, including adhesive backing (dry mixture), plate size: up to 300 x 300 mm	m2	12.7000		
		<i>Total</i>	\$			
		Total Elevation + 9,345 Including wages				
		<i>Total</i>	\$			
		Total Flooring Including wages				
		8.4. Ceiling				
79	CF60E	Plating surfaces in two layers of PGC with the execution of identical metal casing, with a height of up to 4 m: ceilings without insulation	m2	14.7000		
80	CF60F	Plating the surfaces in two layers of PGC with the execution of the identical metal casing, with a height of up to 4 m: insulated	m2	17.5000		

1	2	3	4	5	6	7
		ceilings (mineral wool gr. 120 mm)				
81	CF52B	Interior plasters 5 mm thickness, manually executed, with dry plaster-based mixture, on the ceiling, manual preparation of the mortar	m2	32.2000		
82	CF53B	Interior plasters 5 mm thickness, manually executed, with dry plaster-based mixture, on the ceiling, manual preparation of the mortar. Difference plus or minus for every 1.0 mm (add or subtract from art. CF52)	m2	-32.2000		
83	CN53A	Priming of interior surfaces of the ceilings	m2	32.2000		
84	CF57A	Manual application of the "Eurofin" plaster thickness 1.0 mm, on the surfaces of walls, columns and ceilings	m2	32.2000		
85	CN53A	Priming of interior surfaces of ceilings	m2	32.2000		
86	CN06A	Interior paints with paint based on vinyl copolymers in an aqueous emulsion, applied in 2 layers on an existing trowel, manually executed	m2	32.2000		
		<i>Total</i>	\$			
		Total Ceiling Including wages				
		<i>Total</i>	\$			
		Total Finishing works Including wages				
		9. Stairs				
87	RME17A	Massive quarry stone steps, with a section of 20x40 cm, with simple profile, mounted on existing concrete foundations, including jointing with white cement, stone dust and coloring oxide (scale at elevation + 3,720)	m	6.9600		
88	RCsK15A	Repair of mosaic floors cast on site, with a wear layer of 1.5 cm thick, with a dosage of 600 kg of cement per cubic meter of mosaic stone, including a support layer of 3 cm thick, executed with cement mortar brand 100-T, first rubbing, second rubbing and splitting, in rooms over 16 sqm, executed in a continuous field with granular limestone mosaic, without border,	m2	5.8400		

1	2	3	4	5	6	7
		including rubbing 1 and 2 (entrance staircase)				
89	CH10C1	Manufacture of straight metal ladders made in quantities of less than 50 kg	kg	47.3500		
90	IzD02A	Cleaning rust with metal wire brush from confections and constructions: lattice beams, trusses, braces	t	0.0480		
91	IzD03A	Painting metal confections and constructions made of 8 mm - 12 mm thick profiles, with one layer of lead minium paint, with hand brush	t	0.0480		
92	IzD04A	Painting of metallic confections and constructions made of 8 mm - 12 mm thick profiles with oil paint in 2 layers, with hand brush	t	0.0480		
93	RMF37A	Oak staircase for access to the attic (or tower) of the building: 2 stringers of oak cabinets 20x2 cm at 70 cm interax and steps of oak cabinets 4x20 cm at 20 cm interax embedded in the stringers about 1.5 m, the stringers secured with bolts M12 L = 82 cm	m	2.7500		
		<i>Total</i>	\$			
		Total STAIRS Including wages				
		10. Roofs				
94	RMC01A	Roof trusses with structure on seats or trusses made of softwood composed of wall plates, ropes, rafters, diagonals, pliers, etc. (manufacturing and assembling): roofs with regular contour on the seats (horizontal projection 41.55 m2)	m2	41.5500		
95	RMC06A	Sieve or shingle roofing, made of 24 mm thick softwood boards	m2	60,0000		
96	CN51D	Antiseptic treatment of woodwork, on hidden surfaces with antiseptic pastes: beams, wall plates.	m3	3.7000		

1	2	3	4	5	6	7
97	CN50A	Wood fireproofing treatment; farms, maples, beams, rafters, wall plates.	m3	3.7000		
98	CL18A	Various metallic confections of rolled profiles, sheet metal, corrugated sheet, concrete steel, pipes for supports or coverings, totally or partially embedded in concrete	kg	53.7600		
99	CE17A	Additional polymeric layer ondutiss type mounted under the layer of tiles, corrugated or imprinted plates (anti-condensate film)	m2	60,0000		
100	CE17A	Additional polymeric layer of ondutiss type mounted under the layer of tiles, corrugated or imprinted plates (anti-drainage film)	m2	60,0000		
101	RMC13A	Roofing with thick folds of zinc sheet, including upper tops, aprons, chimney coating, skylights, snuff boxes	m2	60,0000		
		<i>Total</i>	\$			
		Total Roof Including wages				
		11. Doors and windows				
102	R5F05L	Reconstruction of oak door leaves: medium complexity (door U1, taking into account the door frame)	m2	4.0600		
103	R5F05L	Reconstruction of oak door leaves: medium complexity (door U3, taking into account the door frame)	m2	2,9100		
104	R5F05L	Reconstruction of oak door leaves: medium complexity (door U4, taking into account the door frame)	m2	1.9400		
105	R5F05R	Adjustment and hinging of new door leaves: in two wings	pcs	6,9700		
106	R5F05Q	Adjustment and hinging of new door leaves: in a single wing	pcs	1.9400		

1	2	3	4	5	6	7
107	R5F06P	Reconstruction of window frames according to the original models with installation and mounting on hinges: oak window frames made of whole element, fixed: simple complexity	m2	24.3600		
108	R5F09A	Replacement and restoration of softwood window sills: at total replacement	m2	12.3000		
109	RCsR13B	Enamel and alkyd varnish painting of wood joinery (doors, windows, shutters), in existing constructions, inside and outside, in two layers (window painting)	m2	73.1000		
110	RCsR13B	Enamel and alkyd varnish painting of wood joinery (doors, windows, shutters), in existing constructions, inside and outside, in two layers (window sill painting)	m2	12.3000		
111	RMC13A apl	Roofing with thick folds of zinc sheet, including upper tops, aprons, chimney coating, skylights, snuff boxes (exterior windowsill)	m2	32.3000		
112	IzD02C	Cleaning rust with metal wire brush from confections and constructions: parapets, railings (U2 metal door)	t	0900		
113	IzD03A	Painting metal confections and constructions made of 8 mm - 12 mm thick profiles, with one layer of lead minium paint, with hand brush	t	0900		
114	IzD04A	Painting of metallic confections and constructions made of 8 mm - 12 mm profiles with oil paint in 2 layers, with hand brush	t	0900		
		<i>Total</i>	\$			
		Total Doors and Windows Including wages				
		12. Pitching				
115	RpDB37A	Stripping the asphalt coatings up to 3 cm thick consisting of	m2	27.7000		

1	2	3	4	5	6	7
		permanent asphalt mats, asphalt concrete or asphalt mortars				
116	RpDB37A1	Stripping the asphalt coatings up to 3 cm thick consisting of permanent asphalt mats, asphalt concrete or asphalt mortars, for every 1 cm over the 3 cm thickness another 3 cm add (6 cm thick)	m2	27.7000		
117	TsH92B	Loading in soil (earth) containing boulders, stones in the dump truck	t	4,0000		
118	TsI51A10	Transportation of construction waste with 10 t dump truck at 10 km distance	t	4,0000		
119	TsC54C	Gravel foundation layer (20 - 40 mm thick)	m3	1,4000		
120	CA02C	Simple concrete poured in leveling, slopes, screeds at heights up to 35 m inclusive, prepared with concrete plant according to art. CA01, or concrete commodity, poured by classical methods (concrete C 10)	m3	2.7700		
121	CC03C	Installation of welded nets at heights less than or equal to 35 m, on boards (1,85 kg / m2)	kg	51.2500		
122	DD04A	Large type raw stone pavement, 16-20 cm, placed on sand	m2	27.7000		
123	DE11A	Small curbs, prefabricated concrete with a section of 10x15 cm, for framing green spaces, sidewalks, alleys, etc., placed on a concrete foundation, 10x20 cm (curbs PB 100.20.08)	m	23.3000		
		<i>Total</i>	\$			
		Total Pitching Including wages				
		13. Landscaping				
		13.1. Pavement 1				
124	TsA02B	Manual digging in limited spaces, under 1.00 m or over 1.00 m wide, executed without supports, with vertical slope, at foundations, channels, basements, drains, twisting steps, in non-cohesive or	m3	10.0000		

1	2	3	4	5	6	7
		poorly cohesive soil at <0.75 m depth easy terrain				
125	TsD05A	Compaction with the 150-200 kg mechanical mallet of non-cohesive soil fillings in successive layers of 20-30 cm thick, excluding watering of each layer	100 m3	1200		
126	DA06A1	Layer of cylindered natural aggregates, having the function of filtering, insulation, aeration, antifreeze and anticapillary resistance, with manual spreading with ballast (40 mm thick)	m3	7.1500		
127	DE18A	Pavements made of prefabricated concrete pavement slabs placed on a layer of dry mixture of cement and sand, at a ratio of 1: 6, articulated with dry mixture of cement and sand, layer thickness of 5 cm. Plywood thickness 6 cm	m2	47.5000		
128	DE11A	Small curbs of prefabricated concrete with a section of 10x15 cm, for framing green spaces, sidewalks, alleys, etc., placed on a concrete foundation, 10x20 cm (curbs PB 100.20.08)	m	48.7000		
		<i>Total</i>	\$			
		Total Pavement 1 Including wages				
		13.2. Pavement 2 (parking)				
129	TsA02B	Manual digging in limited spaces, under 1.00 m or over 1.00 m wide, executed without supports, with vertical slope, at foundations, channels, basements, drains, twisting steps, in non-cohesive or poorly cohesive soil at <0.75 m depth easy terrain	m3	22.3000		
130	TsD05A	Compaction with the 150-200 kg mechanical mallet of non-cohesive soil fillings in successive layers of 20-30 cm thick, excluding watering of each layer	100 m3	2300		
131	DA06A1	Layer of cylindered natural aggregates, having the function of filtering, insulation, aeration, antifreeze and anticapillary resistance, with manual spreading with ballast (40 mm thick)	m3	13.9500		

1	2	3	4	5	6	7
132	DE18A	Pavements made of prefabricated concrete pavement slabs placed on a layer of dry mixture of cement and sand, at a ratio of 1: 6, articulated with dry mixture of cement and sand, layer thickness of 5 cm. Plywood thickness 9 cm	m2	93,0000		
133	DE11A	Small curbs of prefabricated concrete with a section of 10x15 cm, for framing green spaces, sidewalks, alleys, etc., placed on a concrete foundation, 10x20 cm (curbs PB 100.20.08)	m	27.4000		
		<i>Total</i>	\$			
		Total Pavement 2 (parking) Including wages				
		13.3. Landscape gardening				
134	TsE01A	Manual leveling of plots and platforms, with unevenness of 10-20 cm, in light terrain	100m2	2,0100		
135	TsH09A	Lawn sowing on horizontal or below 30% sloping surfaces	100m2	2,0100		
136	TsH12A	Watering surfaces with hydrant hose	100m2	2,0100		
		<i>Total</i>	\$			
		Total Landscape gardening Including wages				
		<i>Total</i>	\$			
		Total Landscaping Including wages				
		Total	\$			
		Social insurance	24 %			
		TOTAL				
		Transportation of materials	%			
		Storage costs	%			
		TOTAL				
		Overhead	%			
		TOTAL				
		Estimated profit	%			
		TOTAL				
		Total estimated cost: Including wages				

**Restoration and rehabilitation of the
building having the status of historical
monument - The Water Tower in
Soldanesti town with further turning
it into a museum**

(Project Title)

LOCAL BILL OF QUANTITIES No. 2-1-2
Tank dismantling and assembly works

№ -	Standard code and Resource code	Works and costs	M.U.	Design based quantity	Estimated cost, \$	
					Unit cost incl. wages	Total incl. wages
1	2	3	4	5	6	7
		1. Construction works				
1	RpCI42C	Dismantling of roof elements - tile roofing, tiles or pressed sheet metal, PAS, PVC, etc.	m2	55,200		
2	RpCH32B	Dismantling of wooden floors and roof elements - dismantling of all roof truss components, and sorting the resulting materials	m2	55,200		
3	CL18A	Various metal confections -8 feet	kg	570,000		
Total			\$			
Health and social insurance			24.00%			
Transport			%			
Storage costs			%			
Total			100,00 +			
Overhead			%			
Total			100,00 +			
Estimated profit			%			
Total Construction Works Including salary						
		2. Machinery Mounting				
4	M1A02E	Dismantling metal containers (tanks, vessels, basins, bunkers, metal silos) made of carbon steel, delivered assembled, mounted by fixing to foundations, floors or metal skeletons, weighing 5-10 tons-2 pieces	t	6.000		
5	M1A02E	Metal containers (tanks, vessels, basins, bunkers, metal silos)	t	4,200		

1	2	3	4	5	6	7
		made of carbon steel, delivered assembled, mounted by fixing to foundations, floors or metal skeletons, weighing 5-10 tons				
		Total	\$			
		Health and social insurance	24.00%			
		Total	100,00 +			
		Overhead	%			
		Total	100,00 +			
		Estimated profit	%			
Total Machinery Mounting the						
Including salary						
		3. Equipment				
6		Metal tank	pcs	1.000		
		Total	\$			
		Storage costs	%			
Total Equipment Including salary						
		Total	\$			

**Total estimated cost:
Including salary**

**Electricity supply (external
networks) at the restoration and
rehabilitation site of the building
having the status of historical
monument – the Water Tower in
Soldanesti N08 / 2021-1-EEF /
IEE**

(Project Title)

**LOCAL BILL OF QUANTITIES No. 2-1-3
Electrical Works (Soldanesti Water Tower)**

№	Standard code and Resource code	Works and costs	M.U.	Design based quantity	Estimated cost, \$	
					Unit cost incl. wages	
1	2	3	4	5	6	7
		1. Erection Works				
		1.1. TDG Distribution Board				
1	08-03-573-4	Suspended control cabinet (desk), height, ЩРН-24	pcs	1.00		
2	08-03-575-1	Device or apparatus disassembled before transportation (installation of switches and devices in the circuit breaker panel BP32-3P-40A)	pcs	1.00		
3	08-03-575-1	Device or apparatus disassembled before transport (Installation of switches and devices in the automatic machine panel ABDT -32/2 / 16A / 30mA)	pcs	2.00		
4	08-03-575-1	Device or apparatus disassembled before transport (Installation of switches and devices in the automatic machine panel АВДТ-34/4 / 16A / 30mA)	pcs	2.00		
5	08-03-575-1	Device or apparatus disassembled before transport (Installation of switches and devices in the automatic machine panel BA47-29 / 1 / B10A)	pcs	1.00		
6	507-0155	Track N, PE 8/1	pcs	2.00		
		Total TDG Distribution Board Including wages				
		1.2. Cables / Wires				
7	08-02-148-1	Cable up to 35 kV in pipes, blocks and laid boxes, weight of 1 m up to: 1 kg	100 m	1,95		
8	Market price	Cable ББГНГ-LS-3 * 1.5	m	90.00		
9	Market price	Cable VGG-LS-3x2.5	m	65.00%		
10	Market price	Cable ББГНГ-LS-5x2.5	m	40.00		
		Total Cables / Wires Including wages				
		1.3. Technical Protection Tube				

1	2	3	4	5	6	7
11	08-02-409-1	Vinylplast pipe on installed constructions, on walls and columns, fastened with clamps, diameter up to 25 mm	100 m	1,95		
12	market price	V16 pipe D16	m	90.00		
13	market price	V20 pipe D20	m	65.00%		
14	market price	V25 pipe D25	m	40.00		
		Total Technical Protection Tube Including wages				
		1.4. Ceiling Lights				
15	08-03-593-6	Light fixture for ceiling or wall lamps with screw fixing for rooms with normal environmental conditions, single lamp	100 pcs.	0.08		
16	2451089	LED ceiling light (degree of protection IP-54), 16w NPP-1101	pcs	8.00		
17	245106	LED bulb E 27 12 W	pcs	8.00		
		Total Ceiling Lights Including wages				
		1.5. Switches, sockets, box (dose)				
18	08-03-591-2	Switch with one flap, buried type, for closed installation IP40, BC10-2	100 pcs.	0.02		
19	08-03-591-9	Non-buried type plug socket, for closed installation IP40, PC10-3	100 pcs.	0.02		
20	08-03-591-11	IP54, 25A three-pin plug socket	100 pcs.	0.02		
21	2451089	Switch and socket box	pcs	5.00		
		Total Switches, Sockets, Box (dose) Including wages				
		1.6. Lightning Protection				
22	08-02-471-4	Earth socket, vertical, round steel, diameter 16 mm	10 pc	0.10		
23	08-02-472-9	Earthing wire, open, on construction supports, round steel, diameter 20 mm	100 m	0,09		
24	08-02-472-7	Earthing wire, open, on construction supports, made of fission steel, section 160 mm ²	100 m	0,20		
25	08-02-472-8	Earthing wire, open, on construction supports, round steel, diameter 8 mm	100 m	0,24		
		Total Lightning Protection Including wages				
		<i>Direct costs</i>	\$			
		<i>Social fund</i>	24.00%			
		<i>Transportation of materials</i>	%			
		<i>Storage costs</i>	%			
		<i>Direct Costs</i>	100,00 +			
		<i>Overhead</i>	%			
		<i>Total</i>	100,00 +			
		<i>Estimate benefit</i>	%			
		Total Erection Works Including wages				
		2. Equipment				

1	2	3	4	5	6	7
26	Company's price	Cabinet ЩРН-24	pcs	1.00		
27	Company's price	BP32-3P-40A switch	pcs	1.00		
28	Company's price	Automatic ABBT-32/2 / C16A / 30mA	pcs	2.00		
29	Company's price	Automatic ABDT-34/4 / C16A / 30mA	pcs	2.00		
30	Company's price	Automatic BA47-29 / 1 / B10A	pcs	1.00		
		<i>Direct Costs</i>	\$			
		<i>Storage costs</i>	%			
		Total Equipment Including wages				

		Direct Costs	\$	
		Total estimated cost: Including salary		

**Electricity supply (external
networks) at the restoration and
rehabilitation site of the building
having the status of historical
monument – the Water Tower in
Soldanesti N08 / 2021-1-CO1**

(Project Title)

Form no.1
WinCmeta

LOCAL BILL OF QUANTITIES No. 2-1-1
Electrical networks БЛ-0,4 кВ

№	Standard code and Resource code	Works and costs	M.U.	Design based quantity	Estimated cost, \$	
					Unit cost incl. wages	
1	2	3	4	5	6	7
		1. Construction Works				
1	33-04-003-1	Installation of 0.38, 6-10 kV OHL reinforced concrete poles with no-beam crossbeams, single-leg S-105	pcs	1.00		
2	33-04-016-2	Transportation of constructions and materials of 0.38-10 kV OHL supports on the main road: single-leg reinforced concrete supports	pcs	1.00		
3	33-04-016-5	Transportation of constructions and support materials OHL 0.38-10 kV on the main road: materials of single leg support equipment	pcs	1.00		
4	TsC03B1	Mechanical excavation with the excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic control, in soil with natural humidity, unloading in land depot catg. 2nd	100 m3	0,20		
5	TsD18B	Compacted fill in the ditches, for the buried cables of the high voltage power lines, made with earth from the middle ground	m3	20.00		
		<i>Direct costs</i>	\$			
		<i>Social fund</i>	24:00			
		<i>Transportation of materials</i>	%			
		<i>Storage costs</i>	%			
		<i>Direct costs</i>	100,00 +			
		<i>Overhead</i>	%			
		<i>Total</i>	100,00 +			
		<i>Estimate benefit</i>	%			
		Total Construction Works Including wages				
		2. Assembly Works				
6	08-02-411-1	Metal hose, outer diameter up to 40 mm	100 m	0,20		

1	2	3	4	5	6	7
7	08-02-411-1	Metal hose, outer diameter up to 20 mm	100 m	0.10		
8	08-03-573-4	Suspended control cabinet (desk), height, ЦПН-24	pcs	1.00		
9	08-03-573-4	Suspended control cabinet (desk), height, BZUM-TF-01-09	pcs	1.00		
10	08-01-066-1	Lightning rod, OP1-C / 4	set	3.00		
11	08-03-600-2	Three phases meters, mounted on a prepared support, with	pcs	1.00		
12	08-03-525-2	Load separator BH32-3P-63A	pcs	1.00		
13	08-03-526-1	Mono-, bi-, tripolar automat, mounted on a wall or column constructions, BA47-29 / 3 / B16A	pcs	1.00		
14	08-03-526-1	Mono-, bi-, tripolar automat, mounted on a wall or column constructions, BA47-100 / 3 / 20A	pcs	1.00		
15	08-03-526-1	Mono-, bi-, tripolar automat, mounted on a wall or column constructions, BA47-29 / 1 / B6A	pcs	2.00		
16	08-02-142-1	Execution of the bed for a single cable in the trenches	100 m	0,58		
17	08-02-141-1	Cable up to 35 kV in no coverings trenches, mass 1 m, up to: 1 kg	100 m	0,58		
18	08-02-148-1	Cable up to 35 kV in pipes, blocks and laid boxes, weight of 1 m up to: 1 kg	100 m	0.07		
19	The price of the company	Cable АПвБбШп-5х16 mm2	m	15.00		
20	The price of the company	Cable АПвБбШп-3х4 mm2	m	50.00		
21	08-02-148-1	Cable up to 35 kV in pipes, blocks and laid boxes, weight of 1 m up to: 1 kg	100 m	0.17		
22	The price of the company	Cable ВВГнг-5х25 mm2	m	5.00		
23	The price of the company	Cable ВВГнгLS-5х2.5 mm2	m	12,00		
24	08-02-410-1	Polyethylene pipe, on the floor support, diameter up to 20 mm	100 m	0.25		
25	1623	Clamp CDR / CN / IS95 / UC	pcs	2.00		
26	136	Band F2007	m	4,00		
27	137	Scrape A200	pcs	4,00		
28	162	Curau CSB180	pcs	6.00		

1	2	3	4	5	6	7
29	163	Console CA 2000	pcs	2.00		
30	08-02-305-1	Chain clamp "PS-1-1"	pcs	2.00		
31	08-02-363-1	Metal brackets, special, welded, on poles, for luminaires, KC-2 L = 1.0m	pcs	1.00		
32	08-02-369-3	Light fixture installed outside buildings with mercury bulbs (FUMAGALLIGAL400)	pcs	8.00		
33	The price of the company	Lighting fixture FUMAGALLIGAL400	pcs	8.00		
34	08-02-369-3	Light fixture installed outside buildings with mercury bulbs (LED100Br)	pcs	1.00		
35	The price of the company	LED100Vt luminaire	pcs	1.00		
36	08-02-471-4	Earth socket, vertical, round steel, diameter 18 mm	10 pc	0,20		
37	08-02-472-9	Earthing wire, open, on construction supports, round steel, diameter 18 mm	100 m	0.10		
38		Re-grounding device	pcs	0.00		
39	08-02-471-4	Earth socket, vertical, round steel, diameter 20 mm	10 pc	0,30		
40	08-02-472-9	Earthing wire, open, on construction supports, round steel, diameter 18 mm	100 m	0.10		
41	08-02-472-1	Earthing wires: earthing socket, horizontal, round steel, diameter 18 mm	100 m	0,03		
		<i>Direct costs</i>	\$			
		<i>Social fund</i>	24:00			
		<i>Transportation of materials</i>	%			
		<i>Storage costs</i>	%			
		<i>Direct costs</i>	100,00 +			
		<i>Overhead</i>	%			
		<i>Total</i>	100,00 +			
		<i>Estimate benefit</i>	%			
		Total Erection works Including wages				
		3. Equipment				
42	Company's price	Cabinet ИИРН-24	pcs	1.00		
43	Company's price	Cabinet BZUM-TF-01-09	pcs	1.00		
44	Company's price	Downloader OИC1-C / 4	pcs	3.00		
45	Company's price	Electronic meter ZMR110	pcs	1.00		
46	Company's price	Automatic BA47-100 3P 20A	pcs	1.00		
47	Company's price	Automatic BA47-29 1P B6A	pcs	2.00		

1	2	3	4	5	6	7
48	Company's price	Load separator BH32-3P-63A	pcs	1.00		
49	Company's price	Automatic BA47-29 3P B16A	pcs	1.00		
		Direct costs	\$			
		Storage costs	%			
		Total Equipment Including wages				
		Direct costs	\$			
		Total estimated cost: Including salary				