

**Reconstruction of the terminal
building of “Eugen Doga”
International Airport - Chisinau
(cadastral no. 0100120.236.01),
including partial replanning of
internal spaces and building
extension**

Form No. 1B

(name of the facility)

WinEstimate

Cost Estimate-Offer No. 6-1-1

Water Supply and Drainage Networks

(name of works)

Coefficient for basic wages = 1,1500

Coefficient for cost of machine operation = 1,1500

No.	Norm symbol and resource code	Description of works	Unit of measure (U.M.)	Quantity according to the design data
1	2	3	4	5
		1. Construction works		
		1.1. Cold Water Supply and Fire-Fighting System		
		1.1.1. Sanitary fixtures		
1	SD04A	Single-lever mixer tap with pivoting spout, deck-mounted, for washbasin or sink, regardless of closing mechanism, including for persons with disabilities, having a diameter of 1/2" / Sensor washbasin mixer complete with fixing materials and shut-off valve, type HANS GROHE or equivalent	pieces	31,0000
	7136020011620	Water and sewer installer	man-hours	58,8225
	2913124201371	Sensor washbasin mixer complete with fixing materials and shut-off valve, type HANS GROHE	pieces	31,0000
	2513307336204	Flexible connection with DN = 1/2"	pieces	62,0000
2	SC07A	Water closet pan, fully equipped, made of semi-porcelain, sanitary porcelain, etc., including for persons with disabilities, floor-mounted, with water cistern	pieces	35,0000

1	2	3	4	5
		installed at high or mid-level, with internal S-type trap / Fully equipped toilet bowl, type HANSGROHE or equivalent Small materials (wood plugs, gypsum, wood screws, Codez adhesive, dichloroethane, etc.) = 1,0500		
	7136020011620	Water and sewer installer	man-hours	189,1750
	2622102442760 2	Fully equipped toilet bowl, type HANSGROHE	pieces	37,1175
	2913134201755	Angle valve, DN = 3/8"	pieces	36,7500
	2521216720210	Plastic flushing pipe with nominal diameter (DN) 32 mm	m	36,7500
	2513307336203	Flexible connection with nominal diameter (DN) 3/8 inch	pieces	36,7500
	2513736621595	Rubber sleeve for water connection to water closet	pieces	36,7500
3	SC09A	Urinal made of sanitary porcelain mounted on masonry wall made of brick or Autoclaved Aerated Concrete (AAC) / Urinal of HANSGROHE type or equivalent, with fittings from the same manufacturer Small materials (wood plugs, gypsum, wood screws, Codez adhesive, dichloroethane, etc.) = 1,0200	pieces	8,0000
	7136020011620	Water and sewer installer	man-hours	23,4600
	2622102451316 5	Urinal of HANSGROHE type	pieces	8,2416
	2913134201743	Urinal bell-type flush valve with nominal diameter (DN) 3/8 inch	pieces	8,1600
	2874134203155	Bottle-type trap for urinal with nominal diameter (DN) 1 inch	pieces	8,1600
	2521216720210	Plastic flushing pipe with nominal diameter (DN) 32 mm	m	4,8960
4	SC02A	Shower tray made of enamelled cast iron, enamelled sheet steel, polymethyl methacrylate, etc. Small materials (Codez, dichloroethane, cleaning rags, etc.) = 1,0300	pieces	4,0000
	7136020011620	Water and sewer installer	man-hours	8,5100
	2875114200780	Shower tray	pieces	4,1200
	2875114203270	Drain valve	pieces	4,1200
5	SD02A	Bath mixer tap with flexible or fixed shower, regardless of closing mechanism, including for persons with disabilities, mounted on masonry walls made of brick or Autoclaved Aerated Concrete (AAC) / Shower mixer tap of HANSGROHE type	pieces	4,0000

1	2	3	4	5
		or equivalent Small materials (hemp fiber, linseed oil, red lead primer, etc.) = 1,0050		
	7136020011620	Water and sewer installer	man-hours	5,2900
	2913124201350 5	Shower mixer tap of HANSGROHE type	pieces	4,0200
Total Sanitary fixtures				
1.1.2. Fittings				
6	IC39B	Copper distributor/manifold for connection of heating units, appliances or systems to the heating installation with plastic pipes, mounted on wall or in cabinets, having a diameter of 1 inch, on brick wall / Bronze distribution manifold PN10 1 inch × 1/2 inch, 3 connections	pieces	28,0000
	7136040011749	Heating and gas installer	man-hours	14,4900
	2913124120006	Bronze distribution manifold PN10 1 inch × 1/2 inch, 3 connections	pieces	28,0000
	2875274204040	Clamp for water and gas installation pipes	pieces	56,0000
	2811236832352	Drill bit with carbide (widia) tip, diameter (D) = 8 mm	pieces	1,4000
	2524906720949	Polyvinyl Chloride (PVC) wall plug with diameter (D) = 8 mm	pieces	56,0000
	2874125881241	Standard flat washers M 10	pieces	56,0000
	2952270007609	Electric drilling machine	machine-hours	4,8300
7	SD19A	Non-return valve with straight seat and threaded sockets, having diameter 1/2 inch – 3/4 inch / Ball valve PN10 DN15 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	106,0000
	7136020011620	Water and sewer installer	man-hours	28,0370
	2913124503150 7	Ball valve PN10 DN15	pieces	107,5900
8	SD19B	Non-return valve with straight seat and threaded sockets, having diameter 1 inch / Ball valve PN10 DN25 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	14,0000
	7136020011620	Water and sewer installer	man-hours	4,5080
	2913124503150 8	Ball valve PN10 DN25	pieces	14,2100
9	SD19A	Non-return valve with straight seat and threaded sockets, having diameter 1/2 inch – 3/4 inch / Hose valve PN10 DN15	pieces	5,0000

1	2	3	4	5
		Small materials (hemp fiber, red lead primer, etc.) = 1,0150		
	7136020011620	Water and sewer installer	man-hours	1,3225
	2913124503150 9	Hose valve PN10 DN15	pieces	5,0750
10	IC38C	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 32.0 mm / Polypropylene Random Copolymer (PPR) valve PN10 DN32	pieces	2,0000
	7136040011749	Heating and gas installer	man-hours	0,4830
	2875274110101 0	Polypropylene Random Copolymer (PPR) valve PN10 DN32	pieces	2,0000
	2112307325046	Absorbent paper	kg	0,0400
	3220137315778	Flux (soldering flux)	kg	0,0160
	2940600003000	Polyfusion welding machine	machine-hours	0,0483
11	IC38E	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 50.0 mm / Polypropylene Random Copolymer (PPR) valve PN10 DN50	pieces	4,0000
	7136040011749	Heating and gas installer	man-hours	1,2420
	2875274110101 1	Polypropylene Random Copolymer (PPR) valve PN10 DN50	pieces	4,0000
	2112307325046	Absorbent paper	kg	0,1200
	3220137315778	Flux (soldering flux)	kg	0,0400
	2940600003000	Polyfusion welding machine	machine-hours	0,1242
12	AcB01A	Installation of manually or mechanically operated fittings (gate valves, valves, stop valves) on water supply or sewerage pipelines, having diameter 50–100 mm / Flanged butterfly valve PN10 DN100 Small materials and installation materials (gaskets, bolts, etc.) = 1,0400	pieces	5,0000
	7136050012000	Water supply installer	man-hours	3,1625
	2874117300001 2	Flanged butterfly valve PN10 DN100	pieces	5,2000
13	AcA23A	Connection with loose flanges of pipes, fittings and valves on glass-fibre-reinforced polyester pipelines, having diameter 50–100 mm / Weldable bellows compensator PN10 DN100	pieces	3,0000

1	2	3	4	5
		Small materials (gasoline, bituminous varnish, etc.)1,0300		
	7136050012000	Water supply installer	man-hours	2,0010
	2875274428201 3	Weldable bellows compensator PN10 DN100	pieces	3,0900
	2513736601000	Rubber gaskets with inserts	pieces	3,1209
	2874115800001	Hexagon head screws with nuts	pieces	24,7200
Total Fittings				
		1.1.3. Pipelines		
14	SA17B	Plastic pipe joined by polyfusion welding, in distribution pipelines for residential and public buildings, having diameter 32 mm / Polypropylene Random Copolymer (PPR) pipe PN10 SDR11 DN32	m	30,0000
	7136020011620	Water and sewer installer	man-hours	5,5200
	2521216717050 8	Polypropylene Random Copolymer (PPR) pipe PN10 SDR11 DN32	m	30,6000
	2523156719430 8	Polypropylene Random Copolymer (PPR) elbow DN32	pieces	1,8000
	2523156719450 8	Polypropylene Random Copolymer (PPR) tee DN32	pieces	4,5000
	2523156719460 8	Polypropylene Random Copolymer (PPR) reducer DN32	pieces	1,5000
	2523156719400 8	Polypropylene Random Copolymer (PPR) coupling DN32	pieces	2,7000
	2112307325046	Absorbent paper	kg	0,6000
	3220137315778	Flux (soldering flux)	kg	0,1800
	2940600002994	Welding machine	machine-hours	0,3657
15	SA16E	Plastic pipe joined by polyfusion welding, in risers for residential and public buildings, having diameter 50 mm / Polypropylene Random Copolymer (PPR) pipe PN10 SDR11 DN50	m	25,0000
	7136020011620	Water and sewer installer	man-hours	13,8000
	2521216717051 5	Polypropylene Random Copolymer (PPR) pipe PN10 SDR11 DN50	m	25,5000
	2523156719431 5	Polypropylene Random Copolymer (PPR) elbow DN50	pieces	2,0000
	2523156719451 5	Polypropylene Random Copolymer (PPR) tee DN50	pieces	17,7500
	2523156719401 5	Polypropylene Random Copolymer (PPR) coupling DN50	pieces	1,7500
	2523156719461 5	Polypropylene Random Copolymer (PPR) reducer DN50	pieces	2,7500
	2112307325046	Absorbent paper	kg	0,5000

1	2	3	4	5
	3220137315778	Flux (soldering flux)	kg	0,2250
	2940600002994	Welding machine	machine-hours	0,9171
16	SF01C	Carrying out the pressure tightness test of the hot or cold water installation made of heavy type Polyvinyl Chloride (PVC) pipe or plastic pipe, having diameter 16–110 mm	m	55,0000
	7136020011620	Water and sewer installer	man-hours	10,1200
17	SF05C	Flushing of the cold or hot water installation made of plastic pipes, having diameter 20–75 mm	m	55,0000
	7136020011620	Water and sewer installer	man-hours	3,1625
18	IC31A	Copper pipe installed by soldering, for connection of heating units and appliances in central heating installations, having an outer diameter up to 15.0 mm inclusive / Copper pipe R220 PN10 DN15	m	1 290,0000
	7136040011749	Heating and gas installer	man-hours	370,8750
	27461633340018	Copper pipe R220 PN10 DN15	m	1 302,9000
	2414126109482	Copper cleaning paste (flux)	kg	1,2900
	2744135904000	Solder alloy for copper	kg	1,2900
	2735725903105	Electrode for copper soldering L-Cu P6 2×2×500 mm	kg	25,8000
19	AcA05F	Installation of galvanized steel pipes (exposed or concealed) for water supply, assembled by solder-brazing, having diameter 2 1/2 inch / Galvanized steel pipe DN65; excluded: connection elements (tee, elbow, reducer) Small materials (butane gas, cleaning paste) = 1,0500	m	55,0000
	7136050012000	Water supply installer	man-hours	109,4225
	27221033050019	Galvanized steel pipe DN65	m	58,9050
	2873155903088	Special electrodes Cu-Zn-Si	kg	7,5075
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	6,3250
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,0633
20		Weldable steel elbow DN65	pieces	2,0000
	70020	Weldable steel elbow DN65	pieces	2,0000
21		Weldable steel tee DN65	pieces	20,0000

1	2	3	4	5
	70021	Weldable steel tee DN65	pieces	20,0000
22		Weldable steel coupling DN65	pieces	3,0000
	70022	Weldable steel coupling DN65	pieces	3,0000
23	Aca05H	Installation of galvanized steel pipes (exposed or concealed) for water supply, assembled by solder-brazing, having diameter 4 inch / Galvanized steel pipe DN100; excluded: connection elements (tee, elbow, reducer) Small materials (butane gas, cleaning paste) = 1,0500	m	240,0000
	7136050012000	Water supply installer	man-hours	546,4800
	2722103305002 3	Galvanized steel pipe DN100	m	257,0400
	2873155903088	Special electrodes Cu-Zn-Si	kg	40,3200
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	55,2000
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,4140
24		Weldable steel elbow DN100	pieces	5,0000
	70024	Weldable steel elbow DN100	pieces	5,0000
25		Weldable steel tee DN100	pieces	84,0000
	70025	Weldable steel tee DN100	pieces	84,0000
26		Weldable steel coupling DN100	pieces	10,0000
	70026	Weldable steel coupling DN100	pieces	10,0000
27	SF01B	Performing the pressure tightness test of the hot or cold water installation executed from galvanized steel pipes for installations, longitudinally welded, having a diameter of 2 1/2”–4”	m	295,0000
	7136020011620	Water and sewer installer	man-hours	67,8500
28	SF05B	Flushing of the cold or hot water installation made of galvanized steel pipe, having diameter 2 1/2 inch–4 inch	m	295,0000
	7136020011620	Water and sewer installer	man-hours	27,1400
Total Pipelines				
		1.1.4. Thermal insulation materials		
29	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes,	m	1 290,0000

1	2	3	4	5
		having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN15 Small materials = 1,0500		
	7136040011800	Heating installer	man-hours	623,0700
	33205173522329	Mineral wool covering faced with aluminium foil DN15	m	1 395,1350
30	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN32 Small materials = 1,0500	m	30,0000
	7136040011800	Heating installer	man-hours	14,4900
	33205173522330	Mineral wool covering faced with aluminium foil DN32	m	32,4450
31	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN50 Small materials = 1,0500	m	25,0000
	7136040011800	Heating installer	man-hours	12,0750
	33205173522331	Mineral wool covering faced with aluminium foil DN50	m	27,0375
Total Thermal insulation materials				
1.1.5. Materials				
32	IC38C	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 32.0 mm / Welded Polypropylene Random Copolymer (PPR) expansion loop DN32	pieces	1,0000
	7136040011749	Heating and gas installer	man-hours	0,2415
	28752741101032	Welded Polypropylene Random Copolymer (PPR) expansion loop DN32	pieces	1,0000
	2112307325046	Absorbent paper	kg	0,0200
	3220137315778	Flux (soldering flux)	kg	0,0080
	2940600003000	Polyfusion welding machine	machine-	0,0242

1	2	3	4	5
			hours	
33	IC38E	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 50.0 mm / Welded Polypropylene Random Copolymer (PPR) expansion loop DN50	pieces	3,0000
	7136040011749	Heating and gas installer	man-hours	0,9315
	2875274110103 3	Welded Polypropylene Random Copolymer (PPR) expansion loop DN50	pieces	3,0000
	2112307325046	Absorbent paper	kg	0,0900
	3220137315778	Flux (soldering flux)	kg	0,0300
	2940600003000	Polyfusion welding machine	machine-hours	0,0931
34	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN32	pieces	1,0000
	7136020011620	Water and sewer installer	man-hours	0,5750
	2875277330523 4	Firestop collar DN32	pieces	1,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	3,0000
	2874115833877	Galvanized self-tapping screws	kg	0,0300
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0100
	2940520007610	Electric hammer drill	machine-hours	0,2990
35	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN50	pieces	3,0000
	7136020011620	Water and sewer installer	man-hours	1,7250
	2875277330523 5	Firestop collar DN50	pieces	3,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	9,0000
	2874115833877	Galvanized self-tapping screws	kg	0,0900
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0300
	2940520007610	Electric hammer drill	machine-hours	0,8970
36	SA37A	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1/2 inch	pieces	1 290,0000
	7136020011620	Water and sewer installer	man-hours	370,8750
	2875274204043 6	Clamp for water and gas installation pipes 1/2"	pieces	1 290,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	6,4500
	2651122100440	Portland cement with additives PA 35, bags	kg	399,9000

1	2	3	4	5
		S1500		
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	1,5480
	4100116202820	Potable water	m ³	1,2900
37	SA37D	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1 1/4 inch	pieces	30,0000
	7136020011620	Water and sewer installer	man-hours	12,7650
	2875274204043 7	Clamp for water and gas installation pipes 1 1/4"	pieces	30,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,1500
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	9,3000
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0360
	4100116202820	Potable water	m ³	0,0300
38	SA37F	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 2 inch	pieces	25,0000
	7136020011620	Water and sewer installer	man-hours	12,3625
	2875274204043 8	Clamp for water and gas installation pipes 2"	pieces	25,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,1500
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	7,7500
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0300
	4100116202820	Potable water	m ³	0,0250
39	SA37G	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 2 1/2 inch	pieces	55,0000
	7136020011620	Water and sewer installer	man-hours	29,0950
	2875274204043 9	Clamp for water and gas installation pipes 2 1/2"	pieces	55,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,3300
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	17,0500
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0660
	4100116202820	Potable water	m ³	0,0550
40	SA37I	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 4 inch	pieces	240,0000
	7136020011620	Water and sewer installer	man-hours	143,5200
	2875274204044 0	Clamp for water and gas installation pipes 4"	pieces	240,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	1,4400
	2651122100440	Portland cement with additives PA 35, bags	kg	74,4000

1	2	3	4	5
		S1500		
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,2880
	4100116202820	Potable water	m ³	0,2400
41	SD19A	Non-return valve with straight seat and threaded sockets, having diameter 1/2 inch – 3/4 inch / Water hammer compensator DN15 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	14,0000
	7136020011620	Water and sewer installer	man-hours	3,7030
	2913124503154 1	Water hammer compensator DN15	pieces	14,2100
42	ID06A	Air vent valve with adjustable key for central heating installations, having nominal diameter 1/4 inch / Automatic air vent	pieces	14,0000
	7136040011749	Heating and gas installer	man-hours	1,6100
	2913134500004 2	Automatic air vent	pieces	14,0000
	2524907304522	Unsintered Teflon tape	pieces	1,4000
Total Materials				
Total Cold Water Supply and Fire-Fighting System				
		1.2. Hot water supply and recirculation systems		
		1.2.1. Fittings		
43	IC39B	Copper distributor/manifold for connection of heating units, appliances or systems to the heating installation with plastic pipes, mounted on wall or in cabinets, having a diameter of 1 inch, on brick wall / Bronze distribution manifold PN10 1 inch × 1/2 inch, 3 connections	pieces	16,0000
	7136040011749	Heating and gas installer	man-hours	8,2800
	2913124120006	Bronze distribution manifold PN10 1 inch × 1/2 inch, 3 connections	pieces	16,0000
	2875274204040	Clamp for water and gas installation pipes	pieces	32,0000
	2811236832352	Drill bit with carbide (widia) tip, diameter (D) = 8 mm	pieces	0,8000
	2524906720949	Polyvinyl Chloride (PVC) wall plug with diameter (D) = 8 mm	pieces	32,0000
	2874125881241	Standard flat washers M 10	pieces	32,0000
	2952270007609	Electric drilling machine	machine-hours	2,7600

1	2	3	4	5
44	SD19A	Non-return valve with straight seat and threaded sockets, having diameter 1/2 inch – 3/4 inch / Ball valve PN10 DN15 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	50,0000
	7136020011620	Water and sewer installer	man-hours	13,2250
	2913124503150 7	Ball valve PN10 DN15	pieces	50,7500
45	SD19B	Non-return valve with straight seat and threaded sockets, having diameter 1 inch / Ball valve PN10 DN25 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	28,0000
	7136020011620	Water and sewer installer	man-hours	9,0160
	2913124503150 8	Ball valve PN10 DN25	pieces	28,4200
46	IC38A	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter up to 20.0 mm inclusive / Polypropylene Random Copolymer (PPR) valve PN10 DN20	pieces	2,0000
	7136040011749	Heating and gas installer	man-hours	0,3450
	2875274110104 6	Polypropylene Random Copolymer (PPR) valve PN10 DN20	pieces	2,0000
	2112307325046	Absorbent paper	kg	0,0400
	3220137315778	Flux (soldering flux)	kg	0,0120
	2940600003000	Polyfusion welding machine	machine-hours	0,0345
47	IC38B	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 25.0 mm / Polypropylene Random Copolymer (PPR) valve PN10 DN25	pieces	2,0000
	7136040011749	Heating and gas installer	man-hours	0,4140
	2875274110104 7	Polypropylene Random Copolymer (PPR) valve PN10 DN25	pieces	2,0000
	2112307325046	Absorbent paper	kg	0,0400
	3220137315778	Flux (soldering flux)	kg	0,0140
	2940600003000	Polyfusion welding machine	machine-hours	0,0414
48	IC38C	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 32.0 mm /	pieces	3,0000

1	2	3	4	5
		Polypropylene Random Copolymer (PPR) valve PN10 DN32		
	7136040011749	Heating and gas installer	man-hours	0,7245
	28752741101010	Polypropylene Random Copolymer (PPR) valve PN10 DN32	pieces	3,0000
	2112307325046	Absorbent paper	kg	0,0600
	3220137315778	Flux (soldering flux)	kg	0,0240
	2940600003000	Polyfusion welding machine	machine-hours	0,0725
49	IC38D	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 40.0 mm / Polypropylene Random Copolymer (PPR) valve PN10 DN40	pieces	3,0000
	7136040011749	Heating and gas installer	man-hours	0,8280
	28752741101049	Polypropylene Random Copolymer (PPR) valve PN10 DN40	pieces	3,0000
	2112307325046	Absorbent paper	kg	0,0900
	3220137315778	Flux (soldering flux)	kg	0,0270
	2940600003000	Polyfusion welding machine	machine-hours	0,0828
50	SD19B	Non-return valve with straight seat and threaded sockets, having diameter 1 inch / Thermostatic recirculation valve DN25 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	10,0000
	7136020011620	Water and sewer installer	man-hours	3,2200
	29131245031550	Thermostatic recirculation valve DN25	pieces	10,1500
Total Fittings				
		1.2.2. Pipelines		
51	SA15B	Plastic pipe joined by polyfusion welding, in connection pipelines for sanitary fixtures in residential and public buildings, having diameter 20–25 mm / Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN20	m	50,0000
	7136020011620	Water and sewer installer	man-hours	36,2250
	25212167170506	Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN20	m	51,0000
	25231567194306	Polypropylene Random Copolymer (PPR) elbow DN20	pieces	35,0000
	2523156719450	Polypropylene Random Copolymer (PPR) tee	pieces	22,5000

1	2	3	4	5
	6	DN20		
	2523156719460 6	Polypropylene Random Copolymer (PPR) reducer DN20	pieces	5,0000
	2523156719530	Straight threaded adapter, male × female	pieces	50,0000
	2112307325046	Absorbent paper	kg	1,0000
	3220137315778	Flux (soldering flux)	kg	0,3000
	2462107332752	Thread sealing paste for metal threads	kg	0,1000
	2940600002994	Welding machine	machine-hours	2,4092
52	SA17A	Plastic pipe joined by polyfusion welding, in distribution pipelines for residential and public buildings, having diameter 25 mm / Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN25	m	50,0000
	7136020011620	Water and sewer installer	man-hours	8,0500
	2521216717050 7	Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN25	m	51,0000
	2523156719430 7	Polypropylene Random Copolymer (PPR) elbow DN25	pieces	3,0000
	2523156719450 7	Polypropylene Random Copolymer (PPR) tee DN25	pieces	7,5000
	2523156719467	Polypropylene Random Copolymer (PPR) reducer DN25	pieces	2,5000
	2523156719400 7	Polypropylene Random Copolymer (PPR) coupling DN25	pieces	4,5000
	2112307325046	Absorbent paper	kg	1,0000
	3220137315778	Flux (soldering flux)	kg	0,3000
	2940600002994	Welding machine	machine-hours	0,5405
53	SA17B	Plastic pipe joined by polyfusion welding, in distribution pipelines for residential and public buildings, having diameter 32 mm / Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN32	m	80,0000
	7136020011620	Water and sewer installer	man-hours	14,7200
	2521216717055 3	Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN32	m	81,6000
	2523156719430 8	Polypropylene Random Copolymer (PPR) elbow DN32	pieces	4,8000
	2523156719450 8	Polypropylene Random Copolymer (PPR) tee DN32	pieces	12,0000
	2523156719460 8	Polypropylene Random Copolymer (PPR) reducer DN32	pieces	4,0000
	2523156719400 8	Polypropylene Random Copolymer (PPR) coupling DN32	pieces	7,2000
	2112307325046	Absorbent paper	kg	1,6000
	3220137315778	Flux (soldering flux)	kg	0,4800
	2940600002994	Welding machine	machine-hours	0,9752

1	2	3	4	5
54	SA16D	Plastic pipe joined by polyfusion welding, in risers for residential and public buildings, having diameter 40 mm / Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN40	m	80,0000
	7136020011620	Water and sewer installer	man-hours	39,5600
	2521216717052 2	Polypropylene Random Copolymer (PPR) pipe PN16 SDR7.4 DN40	m	81,6000
	2523156719432 2	Polypropylene Random Copolymer (PPR) elbow DN40	pieces	6,4000
	2523156719452 2	Polypropylene Random Copolymer (PPR) tee DN40	pieces	56,8000
	2523156719402 2	Polypropylene Random Copolymer (PPR) coupling DN40	pieces	5,6000
	2523156719462 2	Polypropylene Random Copolymer (PPR) reducer DN40	pieces	8,8000
	2112307325046	Absorbent paper	kg	1,6000
	3220137315778	Flux (soldering flux)	kg	0,6400
	2940600002994	Welding machine	machine-hours	2,6312
55	SF01C	Carrying out the pressure tightness test of the hot or cold water installation made of heavy type Polyvinyl Chloride (PVC) pipe or plastic pipe, having diameter 16–110 mm	m	260,0000
	7136020011620	Water and sewer installer	man-hours	47,8400
56	SF05C	Flushing of the cold or hot water installation made of plastic pipes, having diameter 20–75 mm	m	260,0000
	7136020011620	Water and sewer installer	man-hours	14,9500
57	IC31A	Copper pipe installed by soldering, for connection of heating units and appliances in central heating installations, having an outer diameter up to 15.0 mm inclusive / Copper pipe PN10 DN15	m	750,0000
	7136040011749	Heating and gas installer	man-hours	215,6250
	2746163334005 7	Copper pipe PN10 DN15	m	757,5000
	2414126109482	Copper cleaning paste (flux)	kg	0,7500
	2744135904000	Solder alloy for copper	kg	0,7500
	2735725903105	Electrode for copper soldering L-Cu P6 2×2×500 mm	kg	15,0000
Total Pipelines				
1.2.3. Thermal insulation materials				

1	2	3	4	5
58	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN15 Small materials = 1,0500	m	50,0000
	7136040011800	Heating installer	man-hours	24,1500
	3320517352232 9	Mineral wool covering faced with aluminium foil DN15	m	54,0750
59	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN20 Small materials = 1,0500	m	50,0000
	7136040011800	Heating installer	man-hours	24,1500
	3320517352231 0	Mineral wool covering faced with aluminium foil DN20	m	54,0750
60	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN25 Small materials = 1,0500	m	80,0000
	7136040011800	Heating installer	man-hours	38,6400
	3320517352236 0	Mineral wool covering faced with aluminium foil DN25	m	86,5200
61	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool covering faced with aluminium foil DN32 Small materials = 1,0500	m	80,0000
	7136040011800	Heating installer	man-hours	38,6400
	3320517352233 0	Mineral wool covering faced with aluminium foil DN32	m	86,5200
62	RpIF09B	Insulation of pipelines with special insulation sleeves slipped onto pipes, having diameter and thickness from D=12×9 to D=54×9 mm / Mineral wool	m	1 050,0000

1	2	3	4	5
		covering faced with aluminium foil DN40 Small materials = 1,0500		
	7136040011800	Heating installer	man- hours	507,1500
	3320517352236 2	Mineral wool covering faced with aluminium foil DN40	m	1 135,5750
Total Thermal insulation materials				
1.2.4. Materials				
63	IC38A	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter up to 20.0 mm inclusive / Welded Polypropylene Random Copolymer (PPR) expansion loop DN20	pieces	2,0000
	7136040011749	Heating and gas installer	man- hours	0,3450
	2875274110106 3	Welded Polypropylene Random Copolymer (PPR) expansion loop DN20	pieces	2,0000
	2112307325046	Absorbent paper	kg	0,0400
	3220137315778	Flux (soldering flux)	kg	0,0120
	2940600003000	Polyfusion welding machine	machine- hours	0,0345
64	IC38B	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 25.0 mm / Welded Polypropylene Random Copolymer (PPR) expansion loop DN25	pieces	2,0000
	7136040011749	Heating and gas installer	man- hours	0,4140
	2875274110106 4	Welded Polypropylene Random Copolymer (PPR) expansion loop DN25	pieces	2,0000
	2112307325046	Absorbent paper	kg	0,0400
	3220137315778	Flux (soldering flux)	kg	0,0140
	2940600003000	Polyfusion welding machine	machine- hours	0,0414
65	IC38C	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 32.0 mm / Welded Polypropylene Random Copolymer (PPR) expansion loop DN32	pieces	3,0000
	7136040011749	Heating and gas installer	man- hours	0,7245
	2875274110103	Welded Polypropylene Random Copolymer	pieces	3,0000

1	2	3	4	5
	2	(PPR) expansion loop DN32		
	2112307325046	Absorbent paper	kg	0,0600
	3220137315778	Flux (soldering flux)	kg	0,0240
	2940600003000	Polyfusion welding machine	machine-hours	0,0725
66	IC38D	Connection fitting with 2 joints, made of polypropylene, joined by polyfusion to reinforced polypropylene pipe, having an outer diameter of 40.0 mm / Welded Polypropylene Random Copolymer (PPR) expansion loop DN40	pieces	3,0000
	7136040011749	Heating and gas installer	man-hours	0,8280
	2875274110106 6	Welded Polypropylene Random Copolymer (PPR) expansion loop DN40	pieces	3,0000
	2112307325046	Absorbent paper	kg	0,0900
	3220137315778	Flux (soldering flux)	kg	0,0270
	2940600003000	Polyfusion welding machine	machine-hours	0,0828
67	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN20	pieces	4,0000
	7136020011620	Water and sewer installer	man-hours	2,3000
	2875277330526 7	Firestop collar DN20	pieces	4,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	12,0000
	2874115833877	Galvanized self-tapping screws	kg	0,1200
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0400
	2940520007610	Electric hammer drill	machine-hours	1,1960
68	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN25	pieces	4,0000
	7136020011620	Water and sewer installer	man-hours	2,3000
	2875277330526 8	Firestop collar DN25	pieces	4,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	12,0000
	2874115833877	Galvanized self-tapping screws	kg	0,1200
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0400
	2940520007610	Electric hammer drill	machine-hours	1,1960
69	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN32	pieces	6,0000
	7136020011620	Water and sewer installer	man-hours	3,4500
	2875277330523 4	Firestop collar DN32	pieces	6,0000

1	2	3	4	5
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	18,0000
	2874115833877	Galvanized self-tapping screws	kg	0,1800
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0600
	2940520007610	Electric hammer drill	machine-hours	1,7940
70	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN40	pieces	6,0000
	7136020011620	Water and sewer installer	man-hours	3,4500
	28752773305270	Firestop collar DN40	pieces	6,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	18,0000
	2874115833877	Galvanized self-tapping screws	kg	0,1800
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0600
	2940520007610	Electric hammer drill	machine-hours	1,7940
71	SA37A	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1/2 inch	pieces	55,0000
	7136020011620	Water and sewer installer	man-hours	15,8125
	28752742040436	Clamp for water and gas installation pipes 1/2"	pieces	55,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,2750
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	17,0500
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0660
	4100116202820	Potable water	m ³	0,0550
72	SA37B	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 3/4 inch	pieces	50,0000
	7136020011620	Water and sewer installer	man-hours	16,6750
	28752742040472	Clamp for water and gas installation pipes 3/4"	pieces	50,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,2500
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	15,5000
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0600
	4100116202820	Potable water	m ³	0,0500
73	SA37C	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1 inch	pieces	80,0000
	7136020011620	Water and sewer installer	man-hours	30,3600
	2875274204047	Clamp for water and gas installation pipes 1"	pieces	80,0000

1	2	3	4	5
	3			
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,4000
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	24,8000
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0960
	4100116202820	Potable water	m ³	0,0800
74	SA37D	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1 1/4 inch	pieces	80,0000
	7136020011620	Water and sewer installer	man-hours	34,0400
	2875274204043 7	Clamp for water and gas installation pipes 1 1/4"	pieces	80,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	0,4000
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	24,8000
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	0,0960
	4100116202820	Potable water	m ³	0,0800
75	SA37E	Clamp for fixing water supply and gas pipelines, made of steel or Polyvinyl Chloride (PVC), installed by embedding, the pipelines having diameter 1 1/2 inch	pieces	1 050,0000
	7136020011620	Water and sewer installer	man-hours	483,0000
	2875274204047 5	Clamp for water and gas installation pipes 1 1/2"	pieces	1 050,0000
	2121117308308	Corrugated cardboard, type 2, in rolls of 1 m	kg	5,2500
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	325,5000
	1421102200525	Sorted unwashed river and lake sand 0.0–7.0 mm	m ³	1,2600
	4100116202820	Potable water	m ³	1,0500
76	SD19A	Non-return valve with straight seat and threaded sockets, having diameter 1/2 inch – 3/4 inch / Water hammer compensator DN15 Small materials (hemp fiber, red lead primer, etc.) = 1,0150	pieces	8,0000
	7136020011620	Water and sewer installer	man-hours	2,1160
	2913124503154 1	Water hammer compensator DN15	pieces	8,1200
77	ID06A	Air vent valve with adjustable key for central heating installations, having nominal diameter 1/4 inch / Automatic air vent	pieces	8,0000
	7136040011749	Heating and gas installer	man-hours	0,9200
	2913134500004 2	Automatic air vent	pieces	8,0000
	2524907304522	Unsintered Teflon tape	pieces	0,8000

1	2	3	4	5
Total Materials				
Total Hot water supply and recirculation systems				
		1.3. Domestic sewerage system		
		1.3.1. Pipelines		
78	SB08C	Plastic sewer pipe, joined with rubber gasket, installed exposed or concealed under the floor, having diameter 50 mm / Polypropylene (PP) sewer pipe with sockets S20 DN50	m	175,0000
	7136020011620	Water and sewer installer	man-hours	50,3125
	252121672016020	Polypropylene (PP) sewer pipe with sockets S20 DN50	m	180,2500
	2451437345967	Ointment solution	kg	0,7000
	2112307325046	Absorbent paper	kg	2,1000
79	SB08E	Plastic sewer pipe, joined with rubber gasket, installed exposed or concealed under the floor, having diameter 110 mm / Polypropylene (PP) sewer pipe with sockets S20 DN110	m	75,0000
	7136020011620	Water and sewer installer	man-hours	27,6000
	252121672016019	Polypropylene (PP) sewer pipe with sockets S20 DN110	m	77,2500
	2451437345967	Ointment solution	kg	1,1250
	2112307325046	Absorbent paper	kg	1,1250
80	Aca08A	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 125–160 mm / Polyvinyl Chloride (PVC) sewer pipe with sockets SN8 DN160 Small materials (water, soap paste) = 1,0050	m	40,0000
	7136050012000	Water supply installer	man-hours	13,8000
	25212167005080	Polyvinyl Chloride (PVC) sewer pipe with sockets SN8 DN160	m	41,8080
	2513736601700	Rubber ring gaskets for socketed Polyvinyl Chloride (PVC) pipes	pieces	4,6230
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,0460
81	Aca08B	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 200–225 mm / Polyvinyl Chloride (PVC) sewer pipe	m	50,0000

1	2	3	4	5
		with sockets SN8 DN200 Small materials (water, soap paste) = 1,0050		
	7136050012000	Water supply installer	man-hours	22,4250
	2521216700508 1	Polyvinyl Chloride (PVC) sewer pipe with sockets SN8 DN200	m	52,5112
	2513736601700	Rubber ring gaskets for socketed Polyvinyl Chloride (PVC) pipes	pieces	5,8290
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,1150
82	SF04A	Carrying out the tightness and operational test of the sewerage installation made of cast iron drainage pipes, unplasticized Polyvinyl Chloride (PVC-U) pipe, light type, or plastic material, ductile cast iron pipe having diameter up to 100 mm inclusive	10 m	25,0000
	7136020011620	Water and sewer installer	man-hours	2,3000
83	SF04B	Carrying out the tightness and operational test of the sewerage installation made of cast iron drainage pipes, unplasticized Polyvinyl Chloride (PVC-U) pipe, light type, or plastic material, ductile cast iron pipe having diameter over 100 mm	10 m	9,0000
	7136020011620	Water and sewer installer	man-hours	0,8280
Total Pipelines				
		1.3.2. Materials		
84	SB28A	Floor drain trap made of polypropylene, having outlet diameter 50 mm / Floor drain trap with vertical outlet DN50 Small materials (cement, sand, water, etc.) = 1,0100	pieces	12,0000
	7136020011620	Water and sewer installer	man-hours	3,4500
	2523126721182	Floor drain trap with vertical outlet DN50	pieces	12,1200
	2451437345967	Ointment solution	kg	0,0424
	2112307325046	Absorbent paper	kg	0,1212
85	SB09G	Plastic connection piece for sewerage, joined with rubber gasket, having diameter 160 mm / Polyvinyl Chloride (PVC) inspection piece DN160	pieces	2,0000
	7136020011620	Water and sewer installer	man-hours	0,8280
	2523156721038 3	Polyvinyl Chloride (PVC) inspection piece DN160	pieces	2,0000

1	2	3	4	5
	2451437345967	Ointment solution	kg	0,1200
	2112307325046	Absorbent paper	kg	0,0460
86	SB09G	Plastic connection piece for sewerage, joined with rubber gasket, having diameter 160 mm / Polyvinyl Chloride (PVC) inspection piece DN200	pieces	4,0000
	7136020011620	Water and sewer installer	man-hours	1,6560
	2523156721038 4	Polyvinyl Chloride (PVC) inspection piece DN200	pieces	4,0000
	2451437345967	Ointment solution	kg	0,2400
	2112307325046	Absorbent paper	kg	0,0920
87	SB09E	Plastic connection piece for sewerage, joined with rubber gasket, having diameter 110 mm / Polypropylene (PP) sewer ventilation valve DN110	pieces	12,0000
	7136020011620	Water and sewer installer	man-hours	3,8640
	2523156721038 5	Polypropylene (PP) sewer ventilation valve DN110	pieces	12,0000
	2451437345967	Ointment solution	kg	0,4200
	2112307325046	Absorbent paper	kg	0,1800
88	SB09E	Plastic connection piece for sewerage, joined with rubber gasket, having diameter 110 mm / Polypropylene (PP) cleanout piece with cap DN110	pieces	15,0000
	7136020011620	Water and sewer installer	man-hours	4,8300
	2523156721032 10	Polypropylene (PP) cleanout piece with cap DN110	pieces	15,0000
	2451437345967	Ointment solution	kg	0,5250
	2112307325046	Absorbent paper	kg	0,2250
89	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN110	pieces	1,0000
	7136020011620	Water and sewer installer	man-hours	0,5750
	2875277330528 7	Firestop collar DN110	pieces	1,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	3,0000
	2874115833877	Galvanized self-tapping screws	kg	0,0300
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0100
	2940520007610	Electric hammer drill	machine-hours	0,2990
90	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN160	pieces	2,0000
	7136020011620	Water and sewer installer	man-	1,1500

1	2	3	4	5
			hours	
	2875277330528 8	Firestop collar DN160	pieces	2,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	6,0000
	2874115833877	Galvanized self-tapping screws	kg	0,0600
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0200
	2940520007610	Electric hammer drill	machine-hours	0,5980
91	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN200	pieces	2,0000
	7136020011620	Water and sewer installer	man-hours	1,1500
	2875277330528 9	Firestop collar DN200	pieces	2,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	6,0000
	2874115833877	Galvanized self-tapping screws	kg	0,0600
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,0200
	2940520007610	Electric hammer drill	machine-hours	0,5980
92	IB20A	Support elements for heating units, mounted on brick wall. / Vibration-damping mounting support, including linear type, complete with mounting sleeves	pieces	120,0000
	7136040011749	Heating and gas installer	man-hours	20,7000
	2822115708009 0	Vibration-damping mounting support, including linear type, complete with mounting sleeves	pieces	120,0000
	2523156719287	Polyvinyl Chloride (PVC) wall plug, size 4 NII-1030-75	pieces	240,0000
	2874115836521	Standard round head square neck wood bolt M 6 x 45	pieces	240,0000
	2952270007609	Electric drilling machine	machine-hours	13,8000
Total Materials				
Total Domestic sewerage system				
		1.4. Stormwater sewerage system		
		1.4.1. Pipelines		
93	AcA08A	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 125–160 mm / High-Density Polyethylene (HDPE) pipe PN10 DN110 Small materials (water, soap paste) = 1,0050	m	140,0000

1	2	3	4	5
	7136050012000	Water supply installer	man-hours	48,3000
	2521216700509 3	High-Density Polyethylene (HDPE) pipe PN10 DN110	m	146,3280
	2513736601700	Rubber ring gaskets for socketed Polyvinyl Chloride (PVC) pipes	pieces	16,1805
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,1610
94	Aca08A	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 125–160 mm / High-Density Polyethylene (HDPE) pipe PN10 DN160 Small materials (water, soap paste) = 1,0050	m	160,0000
	7136050012000	Water supply installer	man-hours	55,2000
	2521216700509 4	High-Density Polyethylene (HDPE) pipe PN10 DN160	m	167,2320
	2513736601700	Rubber ring gaskets for socketed Polyvinyl Chloride (PVC) pipes	pieces	18,4920
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,1840
95	Aca08B	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 200–225 mm / High-Density Polyethylene (HDPE) pipe PN10 DN225 Small materials (water, soap paste) = 1,0050	m	160,0000
	7136050012000	Water supply installer	man-hours	71,7600
	2521216700509 5	High-Density Polyethylene (HDPE) pipe PN10 DN225	m	168,0360
	2513736601700	Rubber ring gaskets for socketed Polyvinyl Chloride (PVC) pipes	pieces	18,6528
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,3680
96	Aca08B	Installation in the ground, outside buildings, of Polyvinyl Chloride (PVC) pipes, 9 m in length, sealed with rubber gaskets, having diameter 200–225 mm / High-Density Polyethylene (HDPE) pipe PN10 DN280 Small materials (water, soap paste) = 1,0050	m	105,0000
	7136050012000	Water supply installer	man-hours	47,0925
	2521216700509 6	High-Density Polyethylene (HDPE) pipe PN10 DN280	m	110,2736
	2513736601700	Rubber ring gaskets for socketed Polyvinyl	pieces	12,2409

1	2	3	4	5
		Chloride (PVC) pipes		
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,2415
97	AcA04E	Installation in the ground of steel pipelines assembled by electric welding, having diameter 400-500 mm / Steel protective pipe 426 × 8.0 mm Small materials (bolts, balls, wire) = 1,0300	m	45,0000
	7136050012000	Water supply installer	man-hours	157,3200
	2521216701009 7	Steel protective pipe 426 × 8.0 mm	m	46,8135
	2411115904512	Technical gaseous oxygen S2031	m ³	39,3975
	2413547308164	Technical calcium carbide (carbide) S102	kg	118,6560
	2873155901261	Electrode S 1125/2 E 51.5A1, 1 d × 15 × 450 mm	kg	66,2805
	2320322600282	Bitumen for pipeline protection	kg	501,9705
	2320322600374	Citom	kg	5,5620
	2112307324986	Sulphite paper, type I, for pipe insulation, 80–100 g/m ² roll	kg	14,3685
	2320156200951	Diesel fuel for diesel engine (DIESEL-ld)	kg	43,1055
	3110500003004	Welding inverter, 14 kW	machine-hours	11,9025
	3410520001373	Truck crane, 5 ton-force (tf)	machine-hours	4,1400
	2952270003306	Water pump, 4–6 kilowatts (kW)	machine-hours	0,5175
98	AcF12A	Pressure test of polyethylene pipelines installed in trenches for water supply and sewerage networks, with diameter up to 100 mm	m	140,0000
	7136080025000	Pipe installer	man-hours	0,6601
	2875277410000 0	Compressor 5 m ³ /min	machine-hours	0,3220
99	AcF12B	Pressure test of polyethylene pipelines installed in trenches for water supply and sewerage networks, with diameter up to 150 mm	m	160,0000
	7136080025000	Pipe installer	man-hours	1,1408
	2875277410000 0	Compressor 5 m ³ /min	machine-hours	0,5520
100	AcF12D	Pressure test of polyethylene pipelines installed in trenches for water supply and sewerage networks, with diameter up to 250 mm	m	160,0000
	7136080025000	Pipe installer	man-hours	1,4131
	2875277410000 0	Compressor 5 m ³ /min	machine-hours	0,6845

1	2	3	4	5
101	AcF12E	Pressure test of polyethylene pipelines installed in trenches for water supply and sewerage networks, with diameter up to 300 mm	m	105,0000
	7136080025000	Pipe installer	man-hours	1,0433
	2875277410000 0	Compressor 5 m ³ /min	machine-hours	0,5071
Total Pipelines				
		1.4.2. Materials		
102	SB24E	Floor drain trap made of enamelled cast iron, simple type, having diameter 100 mm / Vertical drain outlet DN100 made of ductile cast iron, with flange and protective grate Small materials (sand, water, etc.) = 1,0200	pieces	20,0000
	7136020011620	Water and sewer installer	man-hours	24,1500
	2875114202910 2	Vertical drain outlet DN100 made of ductile cast iron, with flange and protective grate	pieces	20,4000
	2651122100440	Portland cement with additives PA 35, bags S1500	kg	2,4480
	1752117307067	Tarred caulking material	kg	1,0200
103	AcA53C	Installation of fittings by electrofusion. Electrofusion welding joint between polyethylene pipe and fitting (coupling, tee, elbow), the pipe having diameter 110 mm. / High-Density Polyethylene (HDPE) inspection piece DN110	pieces	11,0000
	7212030022700	Welder	man-hours	15,1800
	2523156713810 3	High-Density Polyethylene (HDPE) inspection piece DN110	pieces	11,1100
	2940600003015	Polyethylene (PE) electrofusion welding machine	machine-hours	13,6620
	3110320012304	Mobile generator set, 39 kilowatts (kW)	machine-hours	13,6620
104	SA40A	Installation of firestop collars fixed to the slab ceiling with wall plugs / Firestop collar DN110	pieces	22,0000
	7136020011620	Water and sewer installer	man-hours	12,6500
	2875277330528 7	Firestop collar DN110	pieces	22,0000
	2051142950706	Spacer dowels made of plastic material 6 × 40 mm	pieces	66,0000
	2874115833877	Galvanized self-tapping screws	kg	0,6600
	2874115883746	Galvanized washers with diameter 6 mm	kg	0,2200

1	2	3	4	5
	2940520007610	Electric hammer drill	machine-hours	6,5780
105	IB20A	Support elements for heating units, mounted on brick wall. / Vibration-damping mounting support, including linear type, complete with mounting sleeves	pieces	140,0000
	7136040011749	Heating and gas installer	man-hours	24,1500
	2822115708009 0	Vibration-damping mounting support, including linear type, complete with mounting sleeves	pieces	140,0000
	2523156719287	Polyvinyl Chloride (PVC) wall plug, size 4 NII-1030-75	pieces	280,0000
	2874115836521	Standard round head square neck wood bolt M 6 x 45	pieces	280,0000
	2952270007609	Electric drilling machine	machine-hours	16,1000
Total Materials				
Total Stormwater sewerage system				
Total				
Social insurance				
Transportation expenses				
Supply and storage expenses				
Direct expenses				
Overhead expenses				
Total including overhead expenses (CR)				
Estimated profit				
Total Construction works				
		2. Installation Works		
106	SD17B	Interior fire hydrant for buildings, with diameter 2 inch, mounted on wall (with cabinet and frame) / labour only Small materials (hemp fiber, red lead primer, gypsum, etc.)1,0500	pieces	21,0000
	7136020011620	Water and sewer installer	man-hours	96,6000
Total				
Social insurance				
Direct expenses				
Overhead expenses				

1	2	3	4	5
Total including overhead expenses (CR)				
Estimated profit				
Total Installation Works				
3. Equipment				
107		Fire valve DN65	pieces	21,0000
	60013	Fire valve DN65	pieces	21,0000
108		Complete fire cabinet with flat hose DN66, 20 metres length, and 19 mm discharge nozzle with shut-off (solid jet and spray)	pieces	21,0000
	60043	Complete fire cabinet with flat hose DN66, 20 metres length, and 19 mm discharge nozzle with shut-off (solid jet and spray)	pieces	21,0000
Total				
Supply and storage expenses				
Total Equipment				

**Total estimate:
Including wages**

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26.02.2026

Semnătura
Signature

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