

**Objective:** Major repair and modernisation works on immovable property with cadastral numbers: 2901303.331.01-study block, 2901303.331.03-dormitory, 2901303.331.04-education and teaching building, with the development of the adjacent territory, located in Cimislia

**Object:** 2-1-11\_SM\_Study block

## Local estimate

### No. 2-1-11

Prepared in current prices

Estimate: Technical and sanitary works						
No	Symbol standards and Resource code	Works and expenses	U.M	Quantity according to project data	Estimated value (Lei)	
					Per unit of measurement	Total
					Incl. salary	Incl. salary
1	2	3	4	5	6	7
		<b>Chapter 1.1. Dismantling and demolition</b>				
1.1	RpIA44H	Dismantling the plate heat exchanger.	pcs	2,0000		
1.2	RpIA59C	Removal of the hot water circulation pump with 1"-2 1/2" pipe.	pcs	4,0000		
1.3	RpID19A	Removal of cast iron or steel taps or fittings for central heating systems with a diameter of up to 2".	pcs	28,0000		
1.4	RpID19B	Removal of cast iron or steel valves or fittings for central heating systems with a diameter greater than 2".	pcs	20,0000		
1.5	RpIA47A	Removal of expansion tank with a capacity of up to 1000 l.	pcs	2,0000		
1.6	RpIC19E	Removal of black pipes for installations welded to central heating systems in residential and social/cultural buildings, for connecting appliances, distribution columns, etc., with a diameter of 4".	m	10,0000		
1.7	RpIC19D	Removal of black pipes for installations welded to central heating systems in residential and social/cultural buildings, connecting appliances, distribution columns, etc., with a diameter of 2 1/2" -3".	m	10,0000		
1.8	RpCP44B	Dismantling of metal structures without material recovery.	kg	80,0000		
		<b>TOTAL Chapter 1.1. Dismantling and demolition</b>				
		<b>Including wages</b>				
		<b>Chapter 1.2. Construction works</b>				
1.9	ID04A	Gate or check valve with plugs for central heating systems, with a nominal diameter of 1/2" -1" (Spherical valve DN20 PN16 T-130°C)	pcs	7,0000		
1.10	ID04A	Gate or check valve with plugs for central heating systems, with a nominal diameter of 1/2" -1" (Spherical valve DN15 PN16 T-130°C)	pcs	2,0000		
1.11	IA20A	Safety valve, screw-mounted, with a nominal diameter of 1/2"...1" (Check valve with G 1/2(DN15) PN16 thread)	pcs	1,0000		
1.12	IA20A	Safety valve, screw-mounted, with a nominal diameter of 1/2"...1" (Safety valve 0.5-8 bar (DN25))	pcs	2,0000		
1.13	ID06A	Air vent valve with mobile key for central heating systems, with a nominal diameter of 1/4" (MATIC Дy 10 automatic air vent)	pcs	10,0000		
1.14	IA18J	Fine fittings for central heating boilers: union with control valve for fittings (Mounting bracket for thermometer Д 45-57 (3K4-3-87))	pcs	25,0000		
1.15	IA18J	Fine fittings for central heating boilers: nipple with control valve for fittings (Mounting bracket for pressure gauge on straight sections (3K4-287.00.90))	pcs	33,0000		
1.16	IA18J	Fine fittings for central heating boilers: union with control valve for fittings (mounting bracket for pressure gauge in corner areas (3K4-275.00. 90))	pcs	2,0000		
1.17	IC12G	Seamless or longitudinally welded steel pipe for construction, installed by welding in distribution pipes, in	m	7,0000		



		central heating installations for residential and social-cultural buildings, (Pipe made of electro-welded pipes Ø 133x3.5 (DN-125))				
1.18	IC12E	Seamless or longitudinally welded steel pipe for construction, installed by welding in distribution pipes, in central heating systems for residential and social and cultural buildings (Electrofused pipe Ø 108x3.0 (DN-100))	m	8,0000		
1.19	IC12C	Seamless or longitudinally welded steel pipe for construction, installed by welding in distribution pipes, in central heating systems for residential and social and cultural buildings (Electro-welded pipe Ø 76x3.0 (DN-65))	m	65,0000		
1.20	IC11F	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, the pipe having a diameter of 2" (Electro-welded pipe Ø 57x3.0(DN-50))	m	15,0000		
1.21	IC11E	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, pipe with a diameter of 1 1/2" (Electro-welded pipe Ø 45x2.5(DN-40))	m	12,0000		
1.22	IC11D	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, with a diameter of 1 1/4" (Electro-welded pipe Ø 38x2.0(DN-32))	m	21,0000		
1.23	IC11C	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, pipe diameter 1" (Electro-welded pipe Ø 32x2.0(DN-25))	m	2,0000		
1.24	IC11C	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, the pipe having a diameter of 1" (Electro-welded pipe Ø 25x2.0(DN-25))	m	2,0000		
1.25	IC11A	Longitudinally welded black steel pipe for installations, unthreaded, mounted by welding in columns, in central heating installations for residential and social-cultural buildings, the pipe having a diameter of 1/2" (Electro-welded pipe Ø 18x1.8 (DN-15))	m	6,0000		
1.26	IC25D	Longitudinally welded black steel pipe for installations, unthreaded, welded to columns in gas installations for residential and social-cultural buildings, pipe diameter 1 1/2" (Steel pipes and gas pipes DN-40x3.0)	m	12,0000		
1.27	IC25A	Longitudinally welded black steel pipe for installations, unthreaded, welded to columns in gas installations for residential and social-cultural buildings, pipe diameter 3/4" (Steel pipes and gas pipes DN-20x2.8)	m	7,0000		
1.28	IC30J	Steel fittings, with 2 screw connections, mounted by screwing to a steel pipe with a diameter of 4" (90° elbow Ø 125)	pcs	2,0000		
1.29	IC30I	Steel fittings, with 2 screw connections, mounted by screwing to the steel pipe, with a diameter of 3" (90° elbow Ø 80)	pcs	1,0000		
1.30	IC30H	Steel fittings, with 2 screw connections, mounted by screwing to steel pipe, with a diameter of 2 1/2" (90° elbow Ø 65)	pcs	10,0000		
1.31	IC30J	Steel fittings, with 2 screw connections, mounted by screwing to steel pipe, with a diameter of 4" (Cross-over Ø 125/100)	pcs	1,0000		
1.32	IC30J	Steel fittings, with 2 screw connections, mounted by screwing to steel pipe, with a diameter of 4" (Passage Ø 125/65)	pcs	1,0000		
1.33	IC30J	Steel fittings, with 2 screw connections, mounted by screwing to the steel pipe, with a diameter of 4" (Passage Ø 100/65)	pcs	1,0000		
1.34	IC30H	Steel fittings, with 2 screw connections, mounted by screwing to steel pipe, with a diameter of 2 1/2" (Passage Ø 65/32)	pcs	4,0000		
1.35	IC30H	Steel fittings, with 2 screw connections, mounted by screwing to steel pipe, with a diameter of 2 1/2" (Passage Ø 65/40)	pcs	4,0000		
1.36	IC30G	Steel fittings, with 2 screw connections, mounted by screwing with	pcs	1,0000		

		steel pipe, with a diameter of 2" (Quick connection under weld Ø50 for flow meter)				
1.37	IzA08A	Painters on pipes, manually executed with oil paint, with an external diameter up to and including 34 mm.	m	157,0000		
1.38	IzH05A	Insulation of pipes with glass wool mattresses, type I or type P mineral wool sewn on one side, on galvanised wire mesh, manufactured on site, with a thickness of 20; 30; 40; 50 or 60 mm, for pipes with a circumference under 35 cm, inclusive, including thermal insulation (Thermal insulation made of high-quality glass fibre waste, type ХПC-T-5 TY-6-11-254-77 .δ=40mm)	m2	62,0000		
1.39	IzI07A1	Thermal insulation protection for pipes and equipment with 0.3 mm thick black or galvanised sheet metal, fixed with semi-round head self-tapping screws for sheet metal, with a pipe circumference over the thermal insulation of up to 0.35 m, manufacture (Galvanised sheet metal in accordance with GOST 14919-80 * 0.5 mm thick)	m2	62,0000		
1.40	IzH05A	Insulation of pipes with glass wool mattresses, type I or type P mineral wool sewn on one side, on galvanised wire mesh, manufactured on site, with a thickness of 20; 30; 40; 50 or 60 mm thick, for pipes with a circumference under 35 cm, including (mineral wool mattresses stitched into a metal mesh covering type M 2 (mesh No. 12-1.2 on both sides) brand 125 .δ=40mm)	m2	23,3300		
1.41	IzI07A1	Thermal insulation protection for pipes and equipment with 0.3 mm thick black or galvanised sheet metal, fixed with semi-round head self-tapping screws for sheet metal, with a pipe circumference over the thermal insulation of up to 0.35 m, manufacture (thin-gauge galvanised steel according to GOST 14919-80* with a thickness of 0.5 mm)	m2	23,3300		
1.42	IC41C	Bracket for fixing steel pipes for central heating or gas installations, mounted by screwing, pipe size 2 1/2" - 4" (Mobile support for pipe Dn 100 ОПБ1/100)	pcs	4,0000		
1.43	IC41C	Clamp for fixing steel pipes for central heating or gas installations, mounted by pressing, pipe size 2 1/2" - 4" (Mobile support for Dn 65 ОПБ1/65 pipe)	pcs	15,0000		
1.44	IC41B	Clamp for fixing steel pipes for central heating or gas installations, mounted by pressing, pipe size 1 1/4" - 2" (Mobile support for Dn 50 ОПБ1/50 pipe)	pcs	3,0000		
1.45	IC41B	Clamp for fixing steel pipes for central heating or gas installations, mounted by pressing, pipe size 1 1/4" - 2" (Mobile support for Dn 40 ОПБ1/40 pipe)	pcs	4,0000		
1.46	IC41B	Bracket for fixing steel pipes for central heating or gas installations, mounted by pressing, pipe size 1 1/4" - 2" (Suspension bracket Dn32 ПГ-38-80)	pcs	2,0000		
1.47	IC41B	Clamp for fixing steel pipes for central heating or gas installations, mounted by pressing, pipe size 1 1/4" - 2" (Suspension bracket Dn32 ПГ-76-250)	pcs	2,0000		
1.48	IC42A	Supports and fasteners for supporting pipes, boilers, appliances and containers weighing up to 2 kg / piece.	kg	35,0000		
1.49	SF05A	Washing of cold or hot water installations made of galvanised steel pipe with a diameter of 3/8"-2".	m	77,0000		
1.50	SF05B	Washing of cold or hot water installations made of galvanised steel pipes with a diameter of 2 1/2"-4".	m	80,0000		
1.51	IE03A	Performing a pressure leak test on the supply pipes of heating devices (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 3/8" ... 1".	m	17,0000		
1.52	IE03B	Performing pressure leak tests on the supply pipes of heating appliances (air heaters, convector heaters, skirting convectors, etc.) with a diameter of 1 1/4" ... 2".	m	60,0000		
1.53	IE03C	Performing pressure leak tests on the supply pipes of heating appliances (air heaters, convector heaters, skirting convectors, etc.) with a diameter of 54 x 3.5 ... 83 x 3.5 mm.	m	65,0000		
1.54	IE03D	Performing pressure leak tests on the supply pipes of heating appliances (air heaters, convector heaters, skirting convectors, etc.) with a diameter of	m	15,0000		

		80 x 3.5 ... 159 x 8 mm.				
		<b>TOTAL Chapter 1.2. Construction work</b>				
		<b>Including wages</b>				

Total	
Social security	24,0000%
Total	
Transport expenses	%
Total	
Storage expenses	%
Total	
Overhead expenses	%
Total	
Estimated profit	%

<b>Total Estimate excluding VAT</b>	
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Estimate: Installation works						
No	Symbol standards and resource code	Works and expenses	U.M	Quantity according to project data	Estimated value (Lei)	
					Per unit of measurement	Total
					Incl. salary	Incl. salary
1	2	3	4	5	6	7
		<b>Chapter 2. Installation work</b>				
2.1	IA11D	Counterflow plate heat exchanger with a primary flow rate of up to 12.5–15.4 m³/h (brazed plate heat exchanger Q=175.0 kW (heating circuit) with 76 plates, Py-16 bar, B28Hx76/1P (SWEP or equivalent))	pcs	1,0000		
2.2	Izk06A	Removable metal protective covers (Insulation for plate heat exchanger)	pcs	1,0000		
2.3	IA16B	Horizontal boiler with coil mounted on a support, boiler capacity 750 l (Capacitive water heater V=750 l Q=84.0 kWt Py-16/106ap with built-in electric heating element N=3.3kW, OKC 750NTR/1MΠa/TJ 6/4" - 3.3 (DRAJICE or equivalent))	pcs	1,0000		
2.4	IA37A	Circulation pump (recirculation) mounted on the existing pipe, by screwing, with a diameter of up to 1", inclusive (Circulation pump with frequency-controlled motor G-7.7 m³/h, H-9.0 m, N el.-0.413kW, single-phase Modula 40-/12 250 RED T2M (BIRAL or similar)	pcs	2,0000		
2.5	IA37A	Circulation pump (recirculation) mounted on the existing pipe, by screwing, with a diameter of up to 1", inclusive (Circulation pump (DHW system) 0.05 kW, 1-230V, G=0.2m³/h, H=3.0 m CompAX 20-4 Blue (BIRAL or similar))	pcs	2,0000		
2.6	IA32A	Closed expansion tank with membrane, with a capacity of up to 500 l (Expansion tank V=250l, Pmax=6bar, Po=4.0bar (Starvarem R2 150 or similar))	pcs	1,0000		
2.7	IA32A	Closed expansion vessel with membrane, with a capacity of up to 500 l (Expansion vessel for DHW V=40 l, Pmax=10 bar, Po=6.0 bar (INTERVAREM or similar))	pcs	1,0000		
2.8	SE58A	Cold and hot water meters, with a diameter of 15..25 mm (Thermal energy meter in set: - Electronic integrator (Multical 602 or similar))	pcs	1,0000		
2.9	11-02-022-04	Devices indicating primary converters (flow meters) installed on the process pipe: rotameter, meter, converter, installed on flange joints, conventional passage diameter, mm, up to: 50 (Ultrasonic flow meter (DN50) Gnom=15.0 m³/h Gmax=30.0 m³/h Gmin=0.15 m³/h, Ultraflow 54 (Kamstrup or equivalent))	pcs	1,0000		
2.10	11-07-001-01	Auxiliary equipment and devices: (PT 500 temperature sensor)	pcs	2,0000		
2.11	SE58A	Cold and hot water meters, with a diameter of 15..25 mm (Hot water meter DN 15, Gmax=3.0 m³/h ,Gnom=1.5 m³/h, Gmin=0.03 m³/h (GSD5- R red or analogue))	pcs	1,0000		
2.12	SE58A	Cold and hot water meters, with a diameter of 15..25 mm (Cold	pcs	1,0000		

		water meter DN 15, Gmax=3.0 m3/h, Gnom=1.5 m3/h, Gmin=0.03 m3/h (GSD5- R blue or analogue))				
2.13	AcB09A applied	Installation of electric valve actuators (2-way control valve DN40 Kvs 25.0 m3/h with electric actuator (heating circuit) T-130°C Py-16.06ap, VRB 2 / AMV(E) (Danfoss or equivalent))	pcs	1,0000		
2.14	11-02-042-02	Valves and flaps with lever drive device: control valve, conventional passage diameter, mm: 15, 20 (Electromagnetic flap DN15 PN16 220V normally closed, EV 220 (Danfoss or equivalent))	pcs	1,0000		
2.15	IA23A	Liquid fuel filter (Magnetic anti-scale device Dn20 Q=0.5..3.0m3/hac)	pcs	1,0000		
2.16	AcB09A applied	Installation of electric valve actuators (2-way control valve DN40 Kvs 16.0 m3/h (DHW circuit) temperature control range 35-70°C, AVT/VG (Danfoss or equivalent))	pcs	1,0000		
2.17	IA42E	Pressure regulator for gas installations, with a maximum inlet pressure of 2 atm. for a normal flow rate of 100 m³/h, with Dn 1 1/4" inlet connection and Dn 2" outlet connection (Differential pressure regulator DN65 Pn-16.0 Kvs 50.0 m³/h P =0.5-3.0 bar, AFP-9/VFG2 (Danfoss or equivalent))	pcs	1,0000		
2.18	ID05C	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 80...100 mm (Spherical valve with steel flanges DN100 PN16 T-130°C)	pcs	2,0000		
2.19	ID05B	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 50...65 mm (Spherical valve with steel flanges DN65 PN16 T-130°C)	pcs	4,0000		
2.20	ID05A	Flanged gate valve or check valve with a nominal diameter of 40 mm for central heating systems (DN40 PN16 T-130°C steel flanged ball valve)	pcs	1,0000		
2.21	ID05A	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 40 mm (Spherical valve with steel flanges DN32 PN16 T-130°C)	pcs	2,0000		
2.22	ID05A	Flanged gate valve or check valve for central heating systems, with a nominal diameter of 40 mm (DN20 PN16 T-130°C steel flanged ball valve)	pcs	1,0000		
2.23	ID05C	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 80...100 mm (Spherical valve with cast iron flanges DN100 PN16 T-130°C)	pcs	3,0000		
2.24	ID05B	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 50...65 mm (Spherical valve with cast iron flanges DN65 PN16 T-130°C)	pcs	10,0000		
2.25	ID05B	Flanged gate valve or check valve for central heating systems, with a nominal diameter of 50...65 mm (Cast iron flanged ball valve DN50 PN16 T-130°C)	pcs	3,0000		
2.26	ID05A	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 40 mm (Spherical valve with cast iron flanges DN40 PN16 T-130°C)	pcs	5,0000		
2.27	11-02-042-16	Valves and flaps with lever actuator: flap, conventional passage diameter, mm: 70 (Check valve between flanges DN65 PN16)	pcs	2,0000		
2.28	11-02-042-13	Valves and flaps with lever actuator: flap, conventional passage diameter, mm: 40 (Check valve between flanges DN40 PN16)	pcs	1,0000		
2.29	ID05A	Gate valve or check valve with flange for central heating systems, with a nominal diameter of 40 mm (Spherical valve with cast iron flanges DN40 PN16 T-130°C with shut-off protection)	pcs	1,0000		
2.30	ID05A	Gate valve or valve and check valve, with flange, for central heating systems, with a nominal diameter of 40 mm (Spherical valve with cast iron flanges DN25 PN16 T-130°C with shut-off protection)	pcs	1,0000		
2.31	SE56A1	Filter for drinking water, with flanges for pipe mounting (Y-type mesh filter with flanges DN100 PN16)	pcs	2,0000		
2.32	SE56A1	Drinking water filter with flanges for installation on the pipe (Y-	pcs	1,0000		

		type mesh filter with DN65 PN16 flanges)				
2.33	SE56A	Drinking water filter, with threaded plugs for pipe mounting (Y-type mesh filter with DN40 PN16 thread)	pcs	1,0000		
2.34	SE56A	Filter for drinking water, with threaded connectors for pipe mounting (Y-type mesh filter with DN20 PN16 thread)	pcs	1,0000		
2.35	SE56A	Drinking water filter with threaded connectors for pipe mounting (Y-type mesh filter with G1/2(DN15) PN16 thread)	pcs	1,0000		
2.36	IC30I	Steel fittings, with 2 screw connections, mounted by screwing to a steel pipe with a diameter of 3" (Flexible element P-16 bar T-95 °C (DN65) "Danfoss" ZKB-65 or equivalent)	pcs	4,0000		
		<b>TOTAL Chapter 2. Installation work</b>				
		<b>Including salary</b>				

Total	
Social insurance	24.0000%
Total	
Transport expenses	%
Total	
Storage expenses	%
Total	
Overhead expenses	%
Total	
Estimated profit	%

<b>Total Estimate without VAT</b>	
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Estimate: Equipment						
No	Symbol standards and resource code	Works and expenses	U.M	Quantity according to project data	Estimated value (Lei)	
					Per unit of measurement	Total
					Incl. salary	Incl. salary
1	2	3	4	5	6	7
		<b>Chapter 3. Equipment</b>				
3.1		Brazed plate heat exchanger Q=175.0 kW (heating circuit) with 76 plates, Py-16 bar, B28Hx76/1P (SWEF or equivalent)	pcs	1,0000		
3.2		Insulation for plate heat exchanger	pcs	1,0000		
3.3		Capacitive water heater V=750 l Q=84.0 kWt Py-16/106ap with built-in electric heating element N=3.3kW, OKC 750NTR/1MΠa/TJ 6/4" - 3.3 (DRAJICE or equivalent)	pcs	1,0000		
3.4		Circulation pump with frequency-controlled motor G-7.7 m3/h, H-9.0 m, N el.-0.413kW, single-phase Modula 40-12 250 RED T2M (BIRAL or equivalent)	pcs	2,0000		
3.5		Circulation pump (DHW system) 0.05 kW, 1-230V, G=0.2m3/h, H=3.0 m CompAX 20-4 Blue (BIRAL or similar)	pcs	2,0000		
3.6		Expansion tank V=250l , Pmax=6bar, Po=4.0bar (Starvarem R2 150 or similar)	pcs	1,0000		
3.7		Expansion tank for DHW V=40l, Pmax=10bar, Po=6.0bar (INTERVAREM or similar)	pcs	1,0000		
3.8		Thermal energy meter set: - Electronic integrator (Multical 602 or analogue)	pcs	1,0000		
3.9		Ultrasonic flow meter (DN50) Gnom=15.0 m3/h Gmax=30.0 m3/h Gmin=0.15 m3/h, Ultraflow 54 (Kamstrup or analogue)	pcs	1,0000		
3.10		PT 500 temperature sensor	pcs	2,0000		
3.11		Hot water meter DN 15, Gmax=3.0 m3/h, Gnom=1.5 m3/h, Gmin=0.03 m3/h (GSD5- R red or analogue)	pcs	1,0000		
3.12		Cold water meter DN 15, Gmax=3.0 m3/h, Gnom=1.5 m3/h, Gmin=0.03 m3/h (GSD5- R blue or analogue)	pcs	1,0000		
3.13		Control valve with 2 horses DN40 Kvs 25.0 m3/h with electric drive (heating circuit) T-130°C Py-16.06ap, VRB 2 / AMV(E) (Danfoss or analogue)	pcs	1,0000		

3.14		Electromagnetic valve DN15 PN16 220V normally closed, EV 220 (Danfoss or equivalent)	pcs	1,0000		
3.15		Magnetic anti-scale device Dn20 Q=0.5..3.0m3/hour	pcs	1,0000		
3.16		2-way control valve DN40 Kvs 16.0 m3/h (ACM circuit) temperature control range 35-70°C, AVT/VG (Danfoss or equivalent)	pcs	1,0000		
3.17		Differential pressure regulator DN65 Pn-16.0 Kvs 50.0 m3/h P =0.5-3.0 bar, AFP-9/VFG2 (Danfoss or equivalent)	pcs	1,0000		
3.18		Steel flanged ball valve DN100 PN16 T-130°C	pcs	2,0000		
3.19		Ball valve with steel flanges DN65 PN16 T-130°C	pcs	4,0000		
3.20		Ball valve with steel flanges DN40 PN16 T-130°C	pcs	1,0000		
3.21		Steel flanged ball valve DN32 PN16 T-130°C	pcs	2,0000		
3.22		Steel flanged ball valve DN20 PN16 T-130°C	pcs	1,0000		
3.23		Cast iron flanged ball valve DN100 PN16 T-130°C	pcs	3,0000		
3.24		Spherical valve with cast iron flanges DN65 PN16 T-130°C	pcs	10,0000		
3.25		Ball valve with cast iron flanges DN50 PN16 T-130°C	pcs	3,0000		
3.26		Spherical valve with cast iron flanges DN40 PN16 T-130°C	pcs	5,0000		
3.27		Check valve between flanges DN65 PN16	pcs	2,0000		
3.28		Check valve between flanges DN40 PN16	pcs	1,0000		
3.29		Cast iron flanged ball valve DN40 PN16 T-130°C with shut-off protection	pcs	1,0000		
3.30		Spherical valve with cast iron flanges DN25 PN16 T-130°C with shut-off protection	pcs	1,0000		
3.31		Y-type strainer with DN100 PN16 flanges	pcs	2,0000		
3.32		Y-type strainer with DN65 PN16 flanges	pcs	1,0000		
3.33		Y-type strainer with thread DN40 PN16	pcs	1,0000		
3.34		Y-type strainer with DN20 PN16 threaded connection	pcs	1,0000		
3.35		Y-type mesh filter with G1/2(DN15) PN16 thread	pcs	1,0000		
3.36		Flexible element P-16 bar T-95 °C (DN65) "Danfoss" ZKB-65 or equivalent	pcs	4,0000		
		<b>TOTAL Chapter 3. Equipment</b>				
		<b>Including salary</b>				

Total	
Storage expenses	%
<b>Total Estimate excluding VAT</b>	

Prepared:

(position, signature, surname, first name)

Verified:

(position, signature, surname, first name)