

**Reconstruction and modernisation of the  
“Emil Nicula” Theoretical High School, plot  
no. 1034320.065, including the addition of  
ancillary buildings, located in the village of  
Mereni, 104 Stefan cel Mare si Sfint Street**

(name of the project)

Form No. 7  
WinCmeta

**LOCAL QUOTATION No. 2-3-3**  
**Heating, ventilation and air conditioning. Block D (2506-1-IVC)**

No. No.	Symbol, standards and resource code	Works and expenses	Unit	Quantity according to project data	Estimated value, lei	
					Per unit of measurement incl. wages	Total incl. salary
1	2	3	4	5	6	7
		<b>1. Construction works</b>				
		<b>1.1. Loudspeakers</b>				
1	VB15D	PDZM 1000x1000.121 rain guard grille or equivalent	pc	8.00		
2	VB26A	TVPM 160 suction valve or equivalent	pc	154.00		
3	VB26A	VAPM 200(140) K/D/T/P/R swirl diffuser or equivalent	pc	12.00		
4	VB26A	VAPM 315 K/D/T/P/R (180) swirl diffuser or equivalent	pc	44.00		
5	VB16B	Manufacture of TPM 002/96 mesh grilles, type KMM 250 - .2 or equivalent	pc	4.00		
6	VB16C	Manufacture of TPM 002/96 mesh grilles, type KMM 800 - .2 or equivalent Small parts=1.0050	pc	2.00		
		<b>Total</b>	lei			
		<b>Total Speakers Including wages</b>				
		<b>1.2. Pipes</b>				
7	SB05A	PVC drainage pipe $\phi$ 20 (ABS Pipe) Small-sized material (steel wire, sandpaper, etc.) = 1.0500	m	1.08		
8	SB05A	PVC drainage pipe $\phi$ 32 (ABS Pipe) Small items (steel wire, sandpaper, etc.) = 1.0500	m	65.19		
9		Copper pipe d=6.0x1.0 mm (Hard copper tube R290-EN1057) in K-FLEX SOLAR HT insulation, thickness 13 mm or equivalent	m	83.61		
10	IC31A	Copper tube d=10x1.0 mm (Hard copper tube R290-EN1057) in K-FLEX SOLAR HT insulation, thickness 13 mm or equivalent	m	83.31		
11	SA04A	Megapress Viega galvanised metal pipe $\phi$ 15 or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0250	m	2.51		
12	SA04B	Megapress Viega galvanised metal pipe $\phi$ 20 or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0250	m	1.10		

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13	SA04C	Megapress Viega galvanised metal pipe $\phi 25$ or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0200	m	15.28		
14	SA04D	Megapress Viega galvanised metal pipe, 32 mm or equivalent / fittings excluded (Application) Small parts (spindle, red lead primer) = 1.0200	m	16.80		
15	SA04E	Megapress Viega galvanised metal pipe $\phi 40$ or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0150	m	273.13		
16	SA04F	Megapress Viega galvanised metal pipe $\phi 50$ or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0150	m	111.81		
17	SA04G	Megapress Viega galvanised metal pipe $\phi 65$ or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0100	m	79.22		
18	SA04H	Megapress Viega galvanised metal pipe $\phi 80$ or equivalent / fittings excluded (Application) Small materials (spindle, red lead primer) = 1.0100	m	77.37		
19	SA04I	Megapress Viega galvanised metal pipe $\phi 100$ or equivalent / fittings excluded (Application) Small items (spindle, red lead primer) = 1.0100	m	12.94		
20	IC35A	PE-RT/AL/PE-RT pipe $\phi 16$ / KAN Sp.z o.o. or equivalent	m	6.38		
21	IC35B	PE-RT/AL/PE-RT pipe, 20 mm / KAN Sp. z o.o. or equivalent	m	650.05		
22	IC36B	PE-RT/AL/PE-RT pipe $\phi 25$ / KAN Sp.z o.o. or equivalent	m	91.55		
23	IC36C	PE-RT/AL/PE-RT pipe $\phi 32$ / KAN Sp.z o.o. or equivalent	m	13.57		
24	IE03A	Performing a pressure leak test on the supply pipes of heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 3/8" ... 1"	m	1,000.26		
25	IE03B	Pressure leak test of supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 1 1/4" ... 2"	m	480.50		
26	IE03C	Pressure leak test on supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 54 x 3.5 ... 83 x 3.5 mm	m	79.22		
27	IE03D	Pressure leak test of supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 80 x 3.5 ... 159 x 8 mm	m	90.31		
28	IE04A	Performing expansion-contraction and operational tests on the supply pipes of heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 3/8" ... 1"	m	999.18		

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29	IE04B	Performing expansion-contraction and operational testing of the supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 1 1/4" ... 2"	m	415.31		
30	IE04C	Performing expansion-contraction and operational testing of supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 54 x 3.5 ... 83 x 3.5 mm	m	79.22		
31	IE04D	Performing expansion-contraction and operational testing of supply pipes for heating appliances (air heaters, convector heaters, baseboard convectors, etc.) with a diameter of 89 x 3.5 ... 159 x 8 mm	m	90.31		
32	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto the pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=18x9 mm Small materials=1.0500	m	10.00		
33	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=22x9 mm Small items = 1.0500	m	729.00		
34	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=28x9 mm Small materials=1.0500	m	122.00		
35	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=35x9 mm Small items=1.0500	m	107.00		
36	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or an equivalent , with an internal diameter and thickness of D=42x9 mm Small materials=1.0500	m	306.00		
37	RpIF09A	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=54x9 mm Small materials=1.0500	m	102.35		
38	RpIF09D	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=54x25 mm Small items=1.0500	m	23.65		
39	RpIF09D	Insulation of pipes with special insulation sleeves, fitted onto pipes,	m	89.00		

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		of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=76x25 mm Small items=1.0500				
40	RpIF09D	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=89x25 mm Small materials=1.0500	m	87.00		
41	RpIF09D	Insulation of pipes with special insulation sleeves, fitted onto pipes, of the K-FLEX ST type or equivalent, with an internal diameter and thickness of D=114x25 mm Small items=1.0500	m	15.00		
		<i>Total</i>	lei			
		<b>Total Pipes Including wages</b>				
		1.3. Pipe connection				
42	IC34A	Copper elbow $\phi 10\text{-}\phi 10$ mm	pc	1.00		
43	IC34E	Copper elbow, 32 mm x 32 mm	pc	49.00		
44	IC34E	Copper elbow $\phi 36\text{-}\phi 36$ mm	pc	45.00		
45	IC37D	Elbow $\phi 38\text{-}\phi 38$ mm KAN Sp.z o.o. or equivalent	pc	528.00		
46	IC37D	Plug $\phi 34$ mm KAN Sp.z o.o. or equivalent	pc	40.00		
47	IC37H	38-38-38 mm tee KAN Sp.z o.o. or equivalent	pc	76.00		
48	IC37H	Teu 43-38-38 mm KAN Sp.z o.o. or equivalent	pc	68.00		
49	IC37H	Teu 43-43-34 mm KAN Sp.z o.o. or equivalent	pc	4.00		
50	IC37H	Teu 50-50-34 mm KAN Sp.z o.o. or equivalent	pc	36.00		
51	IC37D	43-38 mm reducer KAN Sp.z o.o. or equivalent	pc	12.00		
52	IC37D	50-43 mm reducer KAN Sp.z o.o. or equivalent	pc	72.00		
53		Megapress flange $\phi 40\text{x}40$ or equivalent	pc	16.00		
54		Megapress flange $\phi 50\text{x}50$ or equivalent	pc	12.00		
55		Megapress flange $\phi 65\text{x}65$ or equivalent	pc	8.00		
56		Megapress flange $\phi 80\text{x}80$ or equivalent	pc	4.00		
57		Megapress_S-SC elbow, 65x65 mm or equivalent	pc	6.00		
58		Megapress_S-SC elbow $\phi 83\text{x}83$ or equivalent	pc	20.00		
59		Megapress_S-SC elbow $\phi 98\text{x}98$ or equivalent	pc	18.00		
60		Megapress_S-SC reducer $\phi 83\text{x}68$ or equivalent	pc	8.00		
61		Megapress_S-SC reducer $\phi 98\text{x}68$ or equivalent	pc	4.00		
62		Megapress_S-SC reducer $\phi 98\text{x}83$ or equivalent	pc	14.00		

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63		Megapress_S-SC tee $\phi 83 \times 83 \times 58$ or equivalent	pc	6.00		
64		Teu Megapress_S-SC $\phi 83 \times 83 \times 68$ or equivalent	pc	2.00		
65		Teu Megapress_S-SC $\phi 83 \times 83 \times 83$ or equivalent	pc	2.00		
66		Teu Megapress_S-SC $\phi 98 \times 98 \times 43$ or equivalent	pc	8.00		
67		Teu Megapress_S-SC $\phi 98 \times 98 \times 83$ or equivalent	pc	2.00		
68		Teu Megapress_S-SC $\phi 98 \times 98 \times 98$ or equivalent	pc	8.00		
69		Megapress SC elbow $\phi 15 \times 15$ or equivalent	pc	2.00		
70		Megapress SC elbow $\phi 43 \times 43$ or equivalent	pc	12.00		
71		Megapress SC elbow $\phi 50 \times 50$ or equivalent	pc	78.00		
72		Megapress SC elbow, 58x58 mm or equivalent	pc	18.00		
73		Megapress SC elbow $\phi 65 \times 65$ or equivalent	pc	1.00		
74		Megapress SC elbow $\phi 68 \times 68$ or equivalent	pc	14.00		
75		Megapress SC plug $\phi 33$ or equivalent	pc	2.00		
76		Megapress SC plug $\phi 38$ or equivalent	pc	12.00		
77		Megapress SC reducer $\phi 32 \times 15$ or equivalent	pc	1.00		
78		Megapress SC reducer $\phi 43 \times 33$ or equivalent	pc	2.00		
79		Megapress SC reducer $\phi 58 \times 33$ or equivalent	pc	12.00		
80		Megapress SC reducer $\phi 58 \times 38$ or equivalent	pc	12.00		
81		Megapress SC reducer $\phi 68 \times 33$ or equivalent	pc	3.00		
82		Megapress SC reducer $\phi 68 \times 58$ or equivalent	pc	4.00		
83		Megapress SC reducer $\phi 75 \times 65$ or equivalent	pc	2.00		
84		Megapress SC tee $\phi 43 \times 43 \times 43$ or equivalent	pc	8.00		
85		Teu Megapress SC 50x50x50 or equivalent	pc	36.00		
86		Teu Megapress SC 58x58x50 or equivalent	pc	36.00		
87		Teu Megapress SC $\phi 58 \times 58 \times 58$ or equivalent	pc	14.00		
88		Teu Megapress SC 68x68x58 or equivalent	pc	2.00		
89		Teu Megapress SC $\phi 68 \times 68 \times 68$ or equivalent	pc	4.00		
90	SB06A	ABS elbow $\phi 20 \times 20$ mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	1.00		
91	SB06A	ABS elbow 32x32 mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	13.00		
92	SB06A	ABS flange 20x20 mm	pc	7.00		

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		Small parts (steel wire, sandpaper, etc.) = 1.0400				
93	SB06A	ABS flange 32x32 mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	44.00		
94	SB06A	ABS reducer 20x15 mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	2.00		
95	SB06B1	ABS tube 20x20x20 mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	1.00		
96	SB06B1	ABS tube 32x32x32 mm Small parts (steel wire, sandpaper, etc.) = 1.0400	pc	6.00		
97	TfA02E1	Ready-made steel reducer, fitted to the pipe located in a trench at a depth of up to 1 m or above ground at a height of up to 3 m, including cold pressure testing, leak testing and comprehensive testing with fluid in circulation, with a diameter of 219 x 4.5 / 108 x 4.0 mm	pc	2.00		
98	TfA02D1	Ready-made steel reducer, fitted to the pipe located in a trench at a depth of up to 1 m or above ground at a height of up to 3 m, including cold pressure testing, leak testing and comprehensive testing with fluid in circulation, with a diameter of 159x4.5 / 108x4.0 mm	pc	8.00		
99	TfB03F1	Installation on the pipe of a round, flat, weld-on flange, located in a trench at a depth of 1 m or above ground up to 3 m, with DN 100	pc	10.00		
100		Megapress flange $\phi$ 100x100 or equivalent	pc	10.00		
101		Megapress SC elbow $\phi$ 100x100 or equivalent	pc	8.00		
		<i>Total</i>	lei			
		<b>Total Pipe connection Including wages</b>				
		1.4. Pipe fittings				
102	ID04A	Automatic air vent 3/4" F x 3/8" F2 Caleffi or equivalent	pc	6.00		
103	IC30B	Automatic shut-off cock 1/2" Caleffi or equivalent	pc	15.00		
104	AcA23A	Flexible bellows insert ABRA-EJF-16 DN40 NBR or equivalent Small materials (petrol, bitumen varnish, etc.) = 1.0300	pc	8.00		
105	AcA23A	Flexible bellows insertion ABRA-EJF-16 DN50 NBR or equivalent Small items (petrol, bitumen varnish, etc.) = 1.0300	pc	6.00		
106	AcA23A	Flexible bellows insert ABRA-EJF-16 DN65 NBR or equivalent Small materials (petrol, bitumen varnish, etc.) = 1.0300	pc	16.00		
107	AcA23A	Flexible bellows insert ABRA-EJF-16 DN80 NBR or equivalent Small materials (petrol, bitumen varnish, etc.) = 1.0300	pc	2.00		
108	ID04A	1/2" Caleffi shut-off valve or equivalent	pc	59.00		
109	ID04A	3/4" Caleffi shut-off valve or equivalent	pc	12.00		
110	ID04A	1" Caleffi shut-off valve or equivalent	pc	4.00		

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111	ID04B	1 1/4" Caleffi shut-off valve or equivalent	pc	36.00		
112	ID04C	Easytop ball valve MEGAPRESS Du50 or equivalent	pc	2.00		
113	SB09A	HL136N ball trap or equivalent	pc	1.00		
114	ID01A	Caleffi 1/2" Lockshield radiator valve or equivalent	pc	112.00		
115	ID01A	Radiator valve + 1/2" Angled Caleffi thermostatic head or equivalent	pc	112.00		
116	IA18B	Fine fittings for central heating boilers: pressure gauge	pc	2.00		
		<i>Total</i>	lei			
		<b>Total Pipe fittings Including wages</b>				
		1.5. Channels				
117	VA21B	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.5 mm thick galvanised sheet metal (rectangular) with a perimeter of: 640–1000 mm (160×160; 160×180; 160×200; 160x250; 160x300 mm) Small items (wiping cloths, silicone) = 1.0100	m²	57.52		
118	VA22B	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.7 mm thick galvanised sheet metal (rectangular) with a perimeter of up to 1200 mm (160x400 mm) Small items (wiping cloths, silicone) = 1.0100	m²	3.17		
119	VA22C	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.7 mm thick galvanised sheet metal (rectangular) with a perimeter of up to 1800 mm (160x450; 160x500; 160x650 mm) Small materials (wipes, silicone) = 1.0100	m²	62.04		
120	VA22F	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.7 mm thick galvanised sheet metal (rectangular) with a perimeter of: 4000 mm (1000x1000 mm) Small materials (wipes, silicone) = 1.0100	m²	4.88		
121	VA19A	Installation of ventilation ducts at a height of up to 3 m from the floor, made of galvanised sheet metal, 0.5 mm thick, with a circular cross-section diameter of up to 315 mm. Small materials (wipes, silicone) = 1.0100	m²	237.50		
122	VA20A	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.7 mm thick galvanised sheet metal, with a circular cross-section diameter of 355–560 mm. Small materials (wiping rags, silicone) = 1.0100	m²	63.61		
123	VA20B	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.7 mm thick galvanised sheet metal with a circular cross-section diameter of up to 800 mm. Small materials (wipes, silicone) = 1.0100	m²	43.06		

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124	VA19A	Installation of ventilation ducts at a height of up to 3 m from the floor, made of galvanised sheet metal, 0.5 mm thick / fittings Small items (wipes, silicone) = 1.0100	m <sup>2</sup>	176.80		
125	VA21B	Installation of ventilation ducts at a height of up to 3 m from the floor, made of 0.5 mm thick galvanised sheet metal (rectangular) / fittings Small materials (wipes, silicone) = 1.0100	m <sup>2</sup>	69.40		
		<i>Total</i>	lei			
		<b>Total Channels Including salary</b>				
		1.6. Radiators				
126	IB06A	Therm-x2 Profil-K radiator (L/H/D/Type) 500/500/100/Type 22 or equivalent	pc	16.00		
127	IB06A	Therm-x2 Profil-K radiator (L/H/D/Type) 700/500/100/Type 22 or equivalent	pc	1.00		
128	IB06A	Therm-x2 Profil-K radiator (L/H/D/Type) 1000/500/100/Type 22 or equivalent	pc	95.00		
129	IB20A	Support brackets for radiators, mounted on a brick wall.	pc	224.00		
130		Radiator mounting kit	pc	112.00		
131	IE01C	Carrying out a pressure leak test on the central heating system, comprising pipes made of steel, copper, polyethylene or polypropylene, with heating elements, heating appliances, fittings, distributors, manifolds and vessels or air vents, with a total surface area of the heating units of 201–500 m <sup>2</sup>	m <sup>2</sup>	207.40		
132	IE02C	Carrying out expansion-contraction and operational testing of the central heating system, comprising pipes made of steel, copper, polyethylene or polypropylene, with heating units, heating appliances, fittings, distributors, manifolds and vessels or air vents, with a total surface area of the heating units of 201–500 m <sup>2</sup>	m <sup>2</sup>	207.40		
133	IE08C	Flushing the indoor central heating system with drinking water, with a total surface area of the radiators of 201–500 m <sup>2</sup>	m <sup>2</sup>	207.40		
		<i>Total</i>	lei			
		<b>Total Radiators Including wages</b>				
		1.7. External duct insulation				
134	IzI04D	Insulation of ducts with K-FLEX AIR METAL 6mm insulation or equivalent	m <sup>2</sup>	136.94		
135	IzI04D	Insulation of pipes with K-FLEX AIR METAL 9mm insulation or equivalent	m <sup>2</sup>	247.65		



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136	IzI04D	Insulation of pipes with K-FLEX AIR METAL 25mm insulation or equivalent	m <sup>2</sup>	16.79		
137	IzH07B	ROCKWOOL WIRED MAT insulation 105 g/m <sup>2</sup> 25 mm or equivalent	m <sup>2</sup>	171.89		
		<i>Total</i>	lei			
		<b>Total External duct insulation Including wages</b>				
		1.8. External insulation details				
138	IzI04D	Insulation of ducts with K-FLEX AIR METAL 6mm insulation or equivalent	m <sup>2</sup>	49.61		
139	IzI04D	Insulation of pipes with K-FLEX AIR METAL 9mm insulation or equivalent	m <sup>2</sup>	61.51		
140	IzI04D	Insulation of pipes with K-FLEX AIR METAL 25mm insulation or equivalent	m <sup>2</sup>	28.75		
141	IzH07B	ROCKWOOL WIRED MAT insulation 105 g/m <sup>2</sup> 25 mm or equivalent	m <sup>2</sup>	61.32		
		<i>Total</i>	lei			
		<b>Total External insulation details Including wages</b>				
		1.9. Supports				
142		Saiba MT-ZW OC M10 or equivalent	pc	1,014.00		
143		HDG M10 nut or equivalent	pc	1,014.00		
144	CK35B	Metal rod fixed in reinforced concrete elements / excludes dowel	pc	2,490.00		
145		AM8 4.8 threaded rod, galvanised	m	364.00		
146		AM10 4.8 threaded rod, zinc-plated	m	457.00		
147	IC40D	Pipe support clamp MP-MI-F 1/2" or equivalent	pc	192.00		
148	IC40D	Pipe support clamp MP-MI-F 3/4" or equivalent	pc	19.00		
149	IC40D	Pipe support clamp MP-MI-F 1" or equivalent	pc	10.00		
150	IC40E	Pipe support clamp MP-MI-F 1 1/4" or equivalent	pc	199.00		
151	IC40E	Pipe support clamp MP-MI-F 1 1/2" or equivalent	pc	284.00		
152	IC40E	Pipe support clamp MP-MI-F 2" or equivalent	pc	228.00		
153	IC40F	Pipe support clamp MP-MI-F 2 1/2" or equivalent	pc	24.00		
154	IC40F	Pipe support clamp MP-MI-F 80/84 or equivalent	pc	18.00		
155	IC40F	Pipe support collar MP-MI-F 3" or equivalent	pc	40.00		
156		Clamp for supporting ducts MV-P 125 M8/M10 or equivalent	pc	36.00		
157		Clamp for supporting MV-P 140 M8/M10 ducts or equivalent	pc	54.00		
158		Clamp for supporting MV-P 150 M8/M10 ducts or equivalent	pc	47.00		

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159		MV-P 160 M8/M10 duct support clamp or equivalent	pc	118.00		
160		MV-P 180 M8/M10 duct support clamp or equivalent	pc	250.00		
161		Clamp for supporting MV-P 200 ducts, M8/M10 or equivalent	pc	83.00		
162		MV-P 224 M8/M10 duct support clamp or equivalent	pc	478.00		
163		MV-P 250 M8/M10 duct support clamp or equivalent	pc	31.00		
164		MV-P 280 M8/M10 duct support clamp or equivalent	pc	154.00		
165		Clamp for supporting MV-P 315 M8/M10 ducts or equivalent	pc	28.00		
166		Clamp for supporting MV-P 355 M8/M10 ducts or equivalent	pc	7.00		
167		Clamp for supporting MV-P 400 M8/M10 ducts or equivalent	pc	69.00		
168		Clamp for supporting MV-P 450 M8/M10 ducts or equivalent	pc	11.00		
169		Clamp for supporting MV-P 500 M8/M10 ducts or equivalent	pc	16.00		
170		Clamp for supporting MV-P 560 M8/M10 ducts or equivalent	pc	32.00		
171		Clamp for supporting MV-P 630 M8/M10 ducts or equivalent	pc	6.00		
172		Clamp for supporting MV-P 710 ducts or equivalent	pc	20.00		
173		Clamp for supporting MV-P 800 ducts or equivalent	pc	8.00		
174	IC40E	Clamp for supporting MP-MI-F 2" pipes or equivalent	pc	226.00		
175	IC40F	Pipe support clamp MP-MI-F 2 1/2" or equivalent	pc	24.00		
176	IC40F	Pipe support clamp for MP-MI-F 80/84 or equivalent	pc	18.00		
177	IC40E	Pipe support clamp MP-MI-F 2" or equivalent	pc	2.00		
178	IC40D	Pipe support clamp MP-MI-F 1/2" or equivalent	pc	192.00		
179	IC40D	Pipe support clamp MP-MI-F 3/4" or equivalent	pc	19.00		
180	IC40D	Pipe support clamp MP-MI-F 1" or equivalent	pc	10.00		
181	IC40E	Pipe support clamp MP-MI-F 1 1/4" or equivalent	pc	199.00		
182	IC40E	Pipe support clamp MP-MI-F 1 1/2" or equivalent	pc	284.00		
183	IC40F	Pipe support clamp MP-MI-F 3" or equivalent	pc	40.00		
184		Clamp for supporting MV-P ducts 125 M8/M10 or equivalent	pc	36.00		
185		Clamp for supporting MV-P 140 ducts, M8/M10 or equivalent	pc	54.00		
186		Clamp for supporting MV-P 150 M8/M10 ducts or equivalent	pc	47.00		
187		Clamp for supporting MV-P 160 M8/M10 ducts or equivalent	pc	118.00		

1	2	3	4	5	6	7
188		Clamp for supporting MV-P 180 M8/M10 ducts or equivalent	pc	250.00		
189		Clamp for supporting MV-P 200 ducts, M8/M10 or equivalent	pc	83.00		
190		MV-P 224 M8/M10 duct support clamp or equivalent	pc	501.00		
191		MV-P 250 M8/M10 duct support clamp or equivalent	pc	33.00		
192		Clamp for supporting MV-P 280 M8/M10 ducts or equivalent	pc	154.00		
193		Clamp for supporting MV-P 315 M8/M10 ducts or equivalent	pc	28.00		
194		Clamp for supporting MV-P 355 M8/M10 ducts or equivalent	pc	7.00		
195		Clamp for supporting MV-P 400 M8/M10 ducts or equivalent	pc	69.00		
196		Clamp for supporting MV-P 450 M8/M10 ducts or equivalent	pc	11.00		
197		Support bracket for MV-P 500 M8/M10 ducts or equivalent	pc	16.00		
198		Clamp for supporting MV-P 560 M8/M10 ducts or equivalent	pc	32.00		
199		Clamp for supporting MV-P 630 M8/M10 ducts or equivalent	pc	6.00		
200	IC40E	Clamp for supporting MP-MI 1 1/2" G pipes or equivalent	pc	12.00		
201	IC40E	Pipe support clamp MP-MI 2" G or equivalent	pc	64.00		
202	IC40D	Pipe support clamp MP-MI 3/4" G or equivalent	pc	10.00		
203	08-02-397-1	Perforated mounting profile, length 2 m	100 pcs	2.86		
204		MM-C-30 2m Hilti installation profile or equivalent	pc	286.00		
205		MM-ST M8x40 T-bolt, Hilti or equivalent	pc	87.00		
206	08-02-364-2	"Crossing" wall bracket	pc	636.00		
207		BIS dB-FiX 200 rubber mount or equivalent	pc	444.00		
208		BIS Yeti 335 Support System (BUP 1000) Vertical rubber mount or equivalent	pc	192.00		
209		Rail_support MQP-21-72-670 or equivalent	pc	218.00		
210		Rail_support MQP-21-72-1070 or equivalent	pc	98.00		
211		Rail_support MQP-21-72-2000 or equivalent	pc	128.00		
		<i>Total</i>	lei			
		<b>Total Supports Including salary</b>				
		<i>Total</i>	lei			
		<i>Social security</i>	24%			
		<i>Transport costs</i>	%			
		<i>Procurement and storage costs</i>	%			
		<i>Total</i>				
		<i>Overhead costs</i>	%			

1	2	3	4	5	6	7
		<i>Total</i>				
		<i>Budget surplus</i>	%			
		<b>Total construction works Including wages</b>				
		2. Installation works				
		2.1. Pipe fittings				
212	ID04D	Gate or check valve with sockets for central heating systems, nominal diameter 2 1/2" / Non-return valve	pc	6.00		
213	IC46C	Manifold for heating points and boilers, mounted on a ready-made 200 mm support	pc	3.00		
214	AcA26B	Flanged connection of connecting parts, flanges, including blind flanges and fittings, with a diameter of 125–250 mm	pc	4.00		
215	SE55A	Compact pressure boosting and pumping unit	pc	12.00		
216	11-02-001-01	Device installed on threaded connections / ASV-P, expansion valve, ASV-M	pc	40.00		
217	11-02-001-01	Device installed on threaded connections / 3-way valve with actuator	pc	1.00		
218	ID05C	Shut-off valve	pc	4.00		
219	IA11B	Counter-flow plate heat exchanger with a primary flow rate of up to 5.2–9.0 m³/h	pc	1.00		
220	IA25B	Sludge separator for pipes, for central heating systems, DN 100 mm	pc	1.00		
		<i>Total</i>	lei			
		<b>Total Pipe fittings Including wages</b>				
		2.2. Ductwork				
221	VB17A	Noise device, circular type AZC with a circumference of 800–1600 mm	pc	4.00		
222	VB01A2	Adjustment damper, butterfly type, fitted to CFC-I and CFC-II circular ducts with a perimeter of 800–1600 mm, manufactured in centralised workshops / Excludes "galvanised sheet metal or aluminium 0.5; 0.8; 1.0 mm"; "Equal-flange angle bar 20 x 20 x 3 mm" / Electromagnetically operated fire damper	pc	52.00		
223	VB02C2	Control damper, butterfly type, fitted to rectangular ducts of types CFR-I, CFR-II, with a perimeter of 3200–4000 mm, manufactured in centralised workshops / Excludes "galvanised sheet metal or aluminium 0.5; 1.0; 1.5 mm" "25x25x3 angle section" / Damper with servomotor	pc	4.00		
		<i>Total</i>	lei			
		<b>Total Channel reinforcement Including wages</b>				
		2.3. Equipment				

1	2	3	4	5	6	7
224	VC04A	Installation of single-suction, explosion-proof, direct-coupled fans with a flow rate of 660–2,700 m³/h and a 0.8 kW electric motor Small items (gaskets, rags, oil, etc.) = 1.0500	pc	4.00		
225	VC37B	Installation of domestic air conditioning units (split-system) with motor power up to 4.5 kW, using a telescopic boom lift / excluding copper pipes and foam rubber tubing / k=0.5 for the installation of indoor units Small materials = 1.0500 Coefficient = 0.5000	pc	9.00		
226	VC37B	Installation of domestic air conditioning units (split-system) with a motor power of up to 4.5 kW, using a telescopic boom / excluding copper pipes, foam rubber tubing / k=0.5 for the installation of outdoor units Small materials=1.0500 Coefficient = 0.5000	pc	5.00		
		<i>Total</i>	lei			
		<b>Total Equipment Including wages</b>				
		<i>Total</i>	lei			
		<i>Social security</i>	24%			
		<i>Transport costs</i>	%			
		<i>Procurement and storage costs</i>	%			
		<i>Total</i>				
		<i>Overhead costs</i>	%			
		<i>Total</i>				
		<i>Budget surplus</i>	%			
		<b>Total Installation work Including wages</b>				
		3. Equipment				
		3.1. Pipe fittings				
227		ABRA-D-022S-NBR-065 non-return valve or equivalent	pc	6.00		
228		Insulated manifold with one group, fitted with Flamco Special distributor 2.300 DN200-DN100 fittings or equivalent	pc	1.00		
229		Insulated manifold with two groups + MeiFlow L MF 2300 fittings or equivalent	pc	1.00		
230		Insulated three-group manifold + MeiFlow L MF 2300 fittings or equivalent	pc	1.00		
231		BigFixLock manifold extension flange DN200-DN200 or equivalent	pc	4.00		
232		FL-MK shut-off set DN65 or equivalent	pc	6.00		
233		L MC DN65 pump set or equivalent	pc	6.00		
234		ASV-P DN25 automatic balancing valve or equivalent	pc	2.00		
235		ASV-P DN32 automatic balancing valve or equivalent	pc	18.00		

1	2	3	4	5	6	7
236		ASV-M DN25 shut-off valve or equivalent	pc	2.00		
237		ASV-M shut-off valve DN32 or equivalent	pc	18.00		
238		Three-way valve + Belimo R3050S4+NR24ASR actuator or equivalent	pc	1.00		
239		Belimo A6100H EN shut-off valve or equivalent	pc	4.00		
240		Length of Carrying Bar type plate heat exchanger - (1200) Type - AQ4L-FG 16 bar EN 1092-1 DN100 PN16 PED or equivalent	pc	1.00		
241		Sludge separator with flanged connection DN100	pc	1.00		
		<i>Total</i>	lei			
		<b>Total Pipe fittings Including wages</b>				
		3.2. Ductwork				
242		Du250 noise attenuator	pcs	4.00		
243		Fire damper + FDMS S 160-.40 Mandik servomotor or equivalent	pc	3.00		
244		Fire damper + FDMS S 180-.40 Mandik servomotor or equivalent	pc	9.00		
245		Fire damper + FDMS S 225-.40 Mandik servomotor or equivalent	pc	40.00		
246		Smoke extraction damper + servomotor RKTm 1000x1000.45 Mandik or equivalent	pc	2.00		
247		Air intake damper + servomotor RKTm 1000x1000.45 Mandik or equivalent	pc	2.00		
		<i>Total</i>	lei			
		<b>Total Channel reinforcement Including wages</b>				
		3.3. Equipment				
248		Blauberg Centro 250 EC duct fan or equivalent	pc	4.00		
249		Mitsubishi Heavy FDT40VH indoor cooling/heating unit (split system) or equivalent	pc	6.00		
250		Mitsubishi Heavy FDT50VH or equivalent indoor cooling/heating unit (split system)	pc	3.00		
251		Mitsubishi Heavy SCM100ZM-S outdoor cooling/heating unit (split system) or equivalent	pc	4.00		
252		Outdoor cooling/heating unit (split system) type Mitsubishi Heavy SCM50ZS-W or equivalent	pc	1.00		
253		Ventilation system with heat recovery L=14,000/13,000 m³/h, P=500/500 Pa, Rotor=75.9%, heat transfer fluid=60/40°C, Qt water=80.8 kW, Qx refrigerant =155.4 kW, G4/G4 bag-type filter, outdoor installation with optional cooling unit / PV4-1	pc	1.00		

1	2	3	4	5	6	7
		<i>Total</i>	lei			
		<b>Total Equipment Including wages</b>				
		<i>Total</i>	lei			
		<i>Procurement and storage costs</i>	%			
		<b>Total Equipment Including wages</b>				
		4. Adjustment and start-up work				
254	VD04C	Adjustment of components in ventilation, air conditioning and climate control systems, adjustment of control dampers	pc	4.00		
255	03-01-011-06	Adjustment and shut-off device: fire damper	1 device	52.00		
256	03-01-022-03	Ventilation and air conditioning system network, up to 15 sections	1 ventilation unit	1.00		
257	03-01-002-01	Axial fan with network inlet elements, installed in the air duct, in the intake shaft, in the void or on the roof, No.: 4-8	1 device	4.00		
258	03-01-075-01	Local non-autonomous air conditioning unit with centralised heating and cooling supply, nominal air flow rate up to 3,000 m³/h: number of units of the same type of air conditioning in a room: up to 5	pc	5.00		
		<i>Total</i>	lei			
		<i>Social security</i>	24%			
		<i>Total</i>				
		<i>Overheads</i>	%			
		<i>Total</i>				
		<i>Budget surplus</i>	%			
		<b>Total Commissioning and start-up works Including wages</b>				
		<b>Total</b>	lei			
		<b>Total estimate: Including wages</b>				

Prepared

(position, signature, surname, first name)

Verified

(position, signature, surname, first name)