

**Reconstruction and modernisation of the ‘Ion
Creangă’ Secondary School, plot no.
9201110.378, with the addition of ancillary
buildings, located in Ungheni municipality,
151 Ștefan cel Mare și Sfânt Street**

(name of the project)

Form No. 7
WinCmeta

LOCAL QUOTATION No. 2-2-5

Interior electrical lighting / Power distribution equipment. Block B (2510 - IEI/EEF)

Prepared at current prices:

No. No.	Standard symbol and resource code	Works and expenses	Unit of measureme nt	Quantity as per project data	Estimated value, lei	
					Per unit of measure incl. wages	Total including salary
1	2	3	4	5	6	7
		1. Construction works				
1	RpEJ08A	Excavation of trenches up to 5 cm deep in walls of 5x50 cm brickwork	m	2,205.00		
2	RpEJ09D	Filling of grooves in walls up to 50 cm ²	m	2,205.00		
3	RpEJ08D	Cutting grooves up to 5 cm deep in 5x100 cm ² brickwork walls	m	45.00		
4	RpEJ09E	Filling of grooves in walls between 50 and 100 cmp	m	45.00		
5	RCsB29F	Drilling through-holes in brick and stone masonry, using a diamond core drill with a di : 70 mm, L=70 mm – mounting sleeves Labour coefficient = 0.6300 Materials coefficient = 0.6300 Equipment coefficient = 0.6300	pcs	406.00		
6	RCsB29C	Drilling through-holes in brick and stone masonry using a diamond core drill with a diameter of: 40 mm Lmed=200 mm Labour coefficient = 1.8000 Materials coefficient = 1.8000 Equipment coefficient = 1.8000	pcs	38.00		
7	IzD09A applicative	Marking of panels with paint using a stencil in accordance with the markings in the project	pcs	17.00		
		<i>Total</i>	lei			
		<i>Social security</i>	24%			
		<i>Transport costs</i>	%			
		<i>Procurement and warehousing</i>	%			
		<i>Total</i>				
		<i>Overhead costs</i>	%			
		<i>Total</i>				
		<i>Budget surplus</i>	%			

1	2	3	4	5	6	7
		Total construction works Including wages				
		2. Installation works 2.1. Distribution boards and accessories				
8	08-03-572-3	Control panel, cabinet-type or distribution point (cabinet), wall-mounted, height and width, mm, up to 600×600	pcs	17.00		
9	08-01-080-1	Modular 1P load separator	pcs	3.00		
10	08-01-080-2	Modular load separator 3P	pcs	13.00		
11	10-01-001-12 fitted	Rotary miner for 3P modular load separator	pcs	3.00		
12	08-01-80-1	Miniature circuit breakers (MCBs) 1P	pcs	56.00		
13	08-01-080-2	Miniature circuit breakers (MCB) 3P	pcs	3.00		
14	08-01-080-2	Residual current circuit breaker (RCBO) 1P+N	pcs	95.00		
15	08-03-529-1	DC contactor up to 160 A	pcs	6.00		
16	08-01-081-2	Electromagnetic relay with plug-in base	pcs	1.00		
17	08-03-523-1	Holder for cylindrical fuses with fusible element, current up to 100 A	pcs	1.00		
18	08-01-081-1	Mushroom-type stop button	pcs	1.00		
19	08-01-081-1	Recessed push-button switch with lighting	pcs	3.00		
20	08-01-080-2	Surge protector	pcs	17.00		
		<i>Total</i>	lei			
		Total Distribution boards and accessories Including wages				
		2.2. Cables and cable-laying systems				
21	08-02-396-9	Perforated galvanised metal cable tray with a cover, designed for installation on tie rods or suspension brackets, length 2 m	100 m	3.90		
22	supplier price	Perforated galvanised metal guttering, with cover, cross-section 100(h)x300 mm	m	46.00		
23	Supplier price	T-type horizontal jointing fitting for perforated galvanised metal guttering, section 100(h)x300 mm	pcs	1.00		

1	2	3	4	5	6	7
24	supplier price	90° horizontal elbow, for perforated galvanised metal guttering, section 100(h)x300 mm	pc	1.00		
25	Supplier price	90° vertical internal elbow, for perforated galvanised metal guttering, section 100(h)x300 mm	pc	1.00		
26	Supplier price	Perforated galvanised metal guttering, with cover, section 100(h)x200 mm	m	162.00		
27	supplier price	Horizontal T-joint fitting for perforated galvanised metal guttering, cross-section 100(h) × 200 mm	pcs	5.00		
28	supplier price	90° horizontal elbow, for perforated galvanised metal guttering, section 100(h)x200 mm	pcs	1.00		
29	Supplier price	90° vertical internal elbow, for perforated galvanised metal guttering, section 100(h)x200 mm	pcs	5.00		
30	Supplier price	Perforated galvanised metal guttering, with cover, section 100(h)x150 mm	m	16.00		
31	Supplier price	T-type horizontal jointing fitting for perforated galvanised metal guttering, section 100(h)x150 mm	pcs	3.00		
32	supplier price	90° horizontal elbow, for perforated galvanised metal guttering, section 100(h)x150 mm	pcs	3.00		
33	Supplier price	Perforated galvanised metal guttering, with cover, section 100(h)x100 mm	m	158.00		
34	supplier price	90° horizontal elbow, for perforated galvanised metal guttering, cross-section 100(h) × 100 mm	pcs	4.00		
35	supplier price	90° vertical internal elbow, for perforated galvanised metal guttering, section 100(h)x100 mm	pcs	4.00		
36	Supplier price	Perforated galvanised metal guttering, with cover, section 50(h)x100 mm	m	8.00		
37	Supplier price	90° horizontal elbow, for perforated galvanised metal guttering, section 50(h)x100 mm	pcs	3.00		
38	Supplier price	Galvanised steel M8x60 mm mounting plug for installing the suspension rod	pcs	726.00		
39	supplier price	Threaded steel rod, strength class 5.8, galvanised, M8x1000 mm, DIN: 975	pcs	726.00		
40	Supplier price	Galvanised hexagonal nut M8, DIN: 934	pcs	726.00		
41	Supplier price	Galvanised Grover type A, M12, DIN: 127A	pcs	726.00		

1	2	3	4	5	6	7
42	Supplier price	Nylon fastening strap	pcs	363.00		
43	supplier price	Bracket for suspended mounting of a 300 mm wide gutter	pcs	64.00		
44	Supplier price	Bracket for suspended mounting of 200 mm wide gutter	pcs	147.00		
45	supplier price	Bracket for suspended mounting of 150 mm wide gutter	pcs	19.00		
46	Supplier price	Bracket for suspended mounting of 100 mm wide gutter	pcs	133.00		
47	supplier price	Horizontal wall-mounted gutter bracket, 200x55 mm	pcs	10.00		
48	supplier price	Horizontal wall-mounted gutter bracket, 150x55 mm	pcs	26.00		
49	08-02-409-1	Vinyl-plastic pipe for use on existing structures, on walls and columns, secured with clamps, diameter up to 25 mm	100 m	38.35		
50		Flexible spiral U-PVC pipe with self-extinguishing properties (does not propagate flame), with probe, 750N, d=20 mm	m	1,925.00		
51		Flexible spiral U-PVC pipe with self-extinguishing properties (does not propagate flame), with probe, 750N, d=25 mm	m	2,910.00		
52	08-02-409-2	Vinylplast pipe for installation on structures, walls and columns, secured with clamps, diameter up to 50 mm	100 m	1.20		
53		Flexible spiral U-PVC pipe with self-extinguishing properties (does not propagate flame), with probe, 750N, d=32 mm	m	105.00		
54		Flexible spiral U-PVC pipe with self-extinguishing properties (does not propagate flame), with probe, 750N, d=40 mm	m	15.00		
55	08-02-411-1	Metal hose, external diameter up to 48 mm	100 m	0.30		
56	supplier price	Flexible galvanised steel pipe, with PVC 'M' insulation, with probe d=20 mm	linear metre	20.00		
57	supplier price	Flexible galvanised steel pipe, with PVC 'M' insulation, with probe d=32 mm	linear metre	5.00		
58	Supplier price	Flexible galvanised steel pipe, with PVC 'M' insulation, with probe d=40 mm	linear metre	5.00		
59	08-02-148-1	Cable up to 35 kV in conduits, blocks and installed boxes, weight per 1 m up to: 1 kg	100 m	99.65		

1	2	3	4	5	6	7
60	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay, for voltages of 0.6/1.0 kV, complying with the requirements of DIN VDE 0276-604:2008-02; HD 604 S1+A1+A2+A3 :2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $4 \times 1.0 \text{ mm}^2$	linear metre	665.00		
61	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0276-604 :2008-02; HD 604 S1+A1+A2+A3 :2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $3 \times 1.5 \text{ mm}^2$	linear metre	2,385.00		
62	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay, for voltages of 0.6/1.0 kV, which comply with the requirements of DIN VDE 0276-604:2008-02; HD 604 S1+A1+A2+A3:2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $3 \times 2.5 \text{ mm}^2$	linear metre	3,915.00		
63	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay, for voltages of 0.6/1.0 kV, complying with the requirements of DIN VDE 0276-604 :2008-02; HD 604 S1+A1+A2+A3 :2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $3 \times 6.0 \text{ mm}^2$	linear metre	30.00		
64	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay, for voltages of 0.6/1.0 kV, which comply with the requirements of DIN VDE 0276-604:2008-02; HD 604 S1+A1+A2+A3:2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1,	linear metre	220.00		

1	2	3	4	5	6	7
		IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $3 \times 10 \text{ mm}^2$				
65	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and ' ' with increased flame propagation delay, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0276-604 :2008-02; HD 604 S1+A1+A2+A3 :2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $5 \times 2.5 \text{ mm}^2$	linear metre	220.00		
66	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, featuring low smoke emission and increased flame-retardancy, for voltages of 0.6/1.0 kV, which comply with the requirements of DIN VDE 0276-604:2008-02; HD 604 S1+A1+A2+A3:2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section $5 \times 6.0 \text{ mm}^2$	linear metre	45.00		
67	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintaining operational capability for 180 minutes at a minimum temperature of 750°C , for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section $3 \times 1.5 \text{ mm}^2$	linear metre	1,940.00		
68	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, which maintain their operational capability for 180 minutes at a temperature of at least 750°C , for voltages of 0.6/1.0 kV, and which meet the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section $3 \times 6.0 \text{ mm}^2$	linear metre	100.00		
69	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning,	linear metre	65.00		

1	2	3	4	5	6	7
		maintaining operational capability for 180 minutes at a minimum temperature of 750°C, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 3 × 10 mm ²				
70	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintain their operational capability for 180 minutes at a temperature of at least 750°C, for voltages of 0.6/1.0 kV, and which meet the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 3 × 16 mm ²	linear metre	80.00		
71	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintaining operational capability for 180 minutes at a minimum temperature of 750°C, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 4 × 1.5 mm ²	linear metre	40.00		
72	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintain their operational capability for 180 minutes at a temperature of at least 750°C, for voltages of 0.6/1.0 kV, and which meet the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 5 × 2.5 mm ²	linear metre	220.00		
73	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintaining operational capability for 180 minutes at a minimum	linear metre	40.00		

1	2	3	4	5	6	7
		temperature of 750°C, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 5 × 6.0 mm ²				
74	08-02-148-2	Cable up to 35 kV in conduits, blocks and installed boxes, weight per 1 m up to: 2 kg	100 m	5.15		
75	supplier price	Copper cables with halogen-free, extruded solid dielectric insulation, low smoke emission and increased flame propagation delay for voltages of 0.6/1.0 kV, complying with the requirements of DIN VDE 0276-604 :2008-02; HD 604 S1+A1+A2+A3 :2005, IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, type N2XH-J, cross-section 5x16 mm ²	linear metre	440.00		
76	supplier price	Copper cables that do not propagate flame, with low smoke and gas emission, low toxicity when burning, maintaining operational capability for 180 minutes at a minimum temperature of 750°C, for voltages of 0.6/1.0 kV, meeting the requirements of DIN VDE 0266, DIN VDE 0276-604, IEC 60332-3 Cat. C, DIN VDE 0472-814, DIN 4102 Part 12, Unom = 0.66 kV, type (N)HXXH-JE90/FE180, cross-section 5 × 16 mm ²	linear metre	75.00		
77	08-02-412-3	Laying conductors in installed metal conduits and hoses: the first single-strand or multi-strand conductor in a common braid, with a cross-sectional area of up to 16 mm ²	100 m	0.45		
78	supplier price	Single-core conductor with a polyvinyl chloride (PVC) insulating layer, type NYY-J, cross-section 1x16 mm ²	linear metre	45.00		
		<i>Total</i>	lei			
		Total Cables and cable-laying systems Including wages				
		2.3. Electrical installation items				
79	08-03-591-2	Single-pole switch, flush-mounted type, for enclosed installation, including junction box for fitting appliances	100 pcs	0.73		

1	2	3	4	5	6	7
80	supplier price	Single-pole switch, flush-mounted, IP20, 10A, 250 V, colour – matt graphite	pcs	51.00		
81	supplier price	Single-pole switch, flush-mounted, IP44, 10A, 250 V, colour – matt graphite	pcs	22.00		
82	08-03-591-5	Double-pole switch, flush-mounted, for flush-mounted installation, including junction box for fitting devices	100 pcs	0.24		
83	supplier price	2-pole switch, flush-mounted, IP20, 10A, 250 V, colour – matt graphite	pcs	24.00		
84	08-03-591-7	Flush-mounted switch, for flush-mounted installation, including junction box for fitting devices	100 pcs	0.20		
85	supplier price	Staircase switch with 1 pole, illuminated, flush-mounted, IP20, 10A, 250 V, colour – matt graphite	pcs	18.00		
86	supplier price	2-pole staircase switch with backlight, flush-mounted, IP20, 10A, 250 V, colour – matt graphite	pcs	2.00		
87	08-03-591-9	Recessed socket outlet, for a concealed installation, including the junction box for fitting appliances	100 pcs	2.89		
88	supplier price	Flush-mounted socket, with earth connection, 2P+N, IP20, 16A, 250 V, colour – matt graphite	pcs	289.00		
89	supplier price	1M horizontal frame, colour – matt graphite	set	184.00		
90	supplier price	3M horizontal frame, colour – matt graphite	set	74.00		
91	08-03-532-4	Control panel with buttons, general purpose, mounted on a wall or column, up to 3 panel elements	pcs	22.00		
92	08-03-592-1	Distribution box with terminals	100 pcs	0.41		
		<i>Total</i>	lei			
		Total Electrical installation items Including wages				
		2.4. Lighting equipment				
93	08-03-593-9	Spotlight with integrated LED module for local lighting, with mounting preparation	100 units	0.48		
94	08-03-594-1	Lighting fixture with integrated LED module and power supply unit, mounted on a suspended ceiling section	100 pcs	2.24		
95	08-03-594-6	Lighting fixture with integrated LED module and power supply unit, ceiling-mounted using suspension brackets	100 pcs	0.63		

1	2	3	4	5	6	7
96	08-03-594-1	Lighting fixture with integrated LED module and power supply unit, surface-mounted	100 pcs	0.27		
97	08-03-593-10	Light fitting with LED module, surface-mounted, with rechargeable battery	100 pcs	0.21		
		<i>Total</i>	lei			
		Total Lighting equipment Including wages				
		2.5. Dismantling work				
98	RpEG17E	Dismantling of power distribution panels up to 100A	pcs	6.00		
99	RpEE24A	Removal of high-voltage electrical equipment: circuit breakers, switches, sockets, remote-control buttons	pcs	165.00		
100	RpEF23A	Removal of all types of light fittings, including poles and globes	pcs	215.00		
		<i>Total</i>	lei			
		Total dismantling work Including wages				
		<i>Total</i>	lei			
		<i>Social security</i>	24 %			
		<i>Transport costs</i>	%			
		<i>Procurement and warehousing</i>	%			
		<i>Total</i>				
		<i>Overhead costs</i>	%			
		<i>Total</i>				
		<i>Budget surplus</i>	%			
		Total installation work Including wages				
		3. Machinery and equipment 3.1. Distribution boards and accessories				
101	Supplier price	Metal surface-mounted distribution board, with a capacity of 12 modules, IP31, dimensions 265 x 310 x 120 mm, fitted with a padlock and DIN, N and PE busbars (PI-1B, PIA-1B)	pcs	2.00		
102	supplier price	Modular load break switch with tilting lever, ETIM classification - EC000216, AC rated voltage - 400V, Iu=16 A, 3P, IP20	pcs	2.00		
103	Supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: B, In=10 A, Un=230/400 V, 50–60 Hz	pcs	7.00		
104	supplier price	Surge protection, types T1, T2, T3, ETIM classification – EC001457,	pcs	2.00		

1	2	3	4	5	6	7
		TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or equivalent in terms of specifications				
105	supplier price	Metal surface-mounted distribution board, with a capacity of 72 modules, IP31, dimensions 550 x 600 x 120 mm, fitted with a padlock and DIN, N and PE busbars (PD-1B, PD-2B, PD-3B)	pcs	3.00		
106	supplier price	Modular load-break switch with rotary handle, ETIM classification - EC000216, AC rated voltage - 690V, rated current = 63A, 3P, IP20, type CLBS or similar according to specifications	pcs	2.00		
107	Supplier price	Rotary contactor, ETIM classification - EC002498, AC voltage - 690V, current = 16–80 A, type CLBS-DH or similar according to specifications	pcs	2.00		
108	Supplier price	Modular load separator with tilting lever, ETIM classification - EC000216, AC voltage - 400V, Iu=63 A, 3P, IP20	pc	1.00		
109	Supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=16 A, 10 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pcs	23.00		
110	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=16 A, 30 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pcs	5.00		
111	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=10 A, 30 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pcs	35.00		
112	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards,	pcs	17.00		

1	2	3	4	5	6	7
		Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=10 A, 10 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications				
113	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=6 A, 30 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pc	1.00		
114	supplier price	Surge protection, types T1, T2, T3, ETIM classification – EC001457, TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or equivalent in terms of specifications	pcs	3.00		
115	supplier price	Metal distribution board, wall-mounted, with a capacity of 36 modules, IP31, dimensions 540 x 310 x 120 mm, fitted with a padlock and DIN, N and PE busbars (PDV-1B)	pcs	1.00		
116	supplier price	Modular load-break switch with rotary handle, ETIM classification - EC000216, AC rated voltage - 690V, rated current = 63A, 3P, IP20, type CLBS or similar according to specifications	pc	1.00		
117	Supplier price	Rotary contactor, ETIM classification - EC002498, AC voltage - 690V, Iu=16–80 A, type CLBS-DH or similar according to specifications	pc	1.00		
118	Supplier price	Miniature circuit breakers (MCBs), ETIM classification - EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=6 A, Un=230/400 V, 50–60 Hz	pcs	3.00		
119	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=10 A, Un=230/400 V, 50–60 Hz	pcs	2.00		
120	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P,	pcs	2.00		

1	2	3	4	5	6	7
		tripping characteristic: C, In=32 A, Un=230/400 V, 50–60 Hz				
121	supplier price	Modular contactor with 2NO+2NC contacts, ETIM classification - EC001653, In=25 A, Un=400 V, Uc=230 V, 50...60 Hz, type R 25-22-R-230V AC or similar according to specifications	pc	1.00		
122	Supplier price	Type T1, T2, T3 surge protection, ETIM classification - EC001457, TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or similar according to specifications	pcs	1.00		
123	supplier price	Metal surface-mounted distribution board, with a capacity of 12 modules, IP31, dimensions 265 x 310 x 120 mm, fitted with a padlock and DIN-type rails, N and PE (PDA-1B, - , PI-2B, PIA-2B, PDA-2B, PI-3B, PIA-3B, PDA-3B)	pcs	8.00		
124	supplier price	Modular load-break switch with tilting lever, ETIM classification - EC000216, AC voltage - 230V, current rating = 40 A, 1P, IP20	pcs	3.00		
125	Supplier price	Modular load break switch with tilting lever, ETIM classification - EC000216, AC voltage - 400V, Iu=16 A, 3P, IP20	pcs	4.00		
126	supplier price	Modular load-break switch with tilting lever, ETIM classification – EC000216, AC rated voltage – 400 V, rated current = 40 A, 3-pole, IP20	pc	1.00		
127	supplier price	Miniature circuit breakers (MCBs), ETIM classification - EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: B, In=10A, Un=230/400 V, 50–60 Hz	pcs	14.00		
128	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898- 1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=6 A, Un=230/400 V, 50–60 Hz	pcs	4.00		
129	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=10 A, Un=230/400 V, 50–60 Hz	pcs	11.00		
130	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042,	pcs	3.00		

1	2	3	4	5	6	7
		standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=32 A, Un=230/400 V, 50–60 Hz				
131	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 3P, tripping characteristic: C, In=16 A, Un=400 V, 50...60 Hz	pcs	2.00		
132	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=10 A, 30 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pcs	1.00		
133	supplier price	Surge protection, types T1, T2, T3, ETIM classification – EC001457, TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or equivalent in terms of specifications	pcs	8.00		
134	supplier price	Metal surface-mounted distribution board, with a capacity of 24 modules, IP31, dimensions 395 x 310 x 120 mm, fitted with a padlock and DIN, N and PE busbars (PDV-2B, PDV-3B)	pcs	2.00		
135	supplier price	Modular load break switch with tilting lever, ETIM classification - EC000216, AC rated voltage - 400V, rated current = 40 A, 3P, IP20	pcs	2.00		
136	Supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=6 A, Un=230/400 V, 50–60 Hz	pcs	2.00		
137	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=10 A, Un=230/400 V, 50–60 Hz	pcs	2.00		
138	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=20 A, Un=230/400 V, 50–60 Hz	pc	1.00		

1	2	3	4	5	6	7
139	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=25 A, Un=230/400 V, 50–60 Hz	pc	1.00		
140	supplier price	Miniature circuit breakers (MCBs), ETIM classification – EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 1P, tripping characteristic: C, In=32 A, Un=230/400 V, 50–60 Hz	pcs	4.00		
141	supplier price	Modular contactor with 2NO+2NC contacts, ETIM classification - EC001653, In=25 A, Un=400 V, Uc=230 V, 50...60 Hz, type R 25-22-R-230V AC or similar according to specifications	pcs	2.00		
142	Supplier price	Type T1, T2, T3 surge protection, ETIM classification - EC001457, TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or similar according to specifications	pcs	2.00		
143	supplier price	Metal surface-mounted distribution board, with a capacity of 48 modules, IP31, dimensions 620 x 310 x 120 mm, fitted with a padlock and DIN, N and PE busbars (PD-3.1B)	pcs	1.00		
144	Supplier price	Miniature circuit breakers (MCBs), ETIM classification - EC000042, standards IEC/EN 60898-1 Icn=6.0 kA, IEC 60947-2 Icu=6.0 kA, 3P, tripping characteristic: C, In=20 A, Un=400 V, 50...60 Hz	pc	1.00		
145	supplier price	Industrial electromagnetic relay with 3 contacts, without indicator, In=16 A, Un=440 V, Uc=230 V, 50 Hz, type RERM3-230AC or similar according to specifications	pc	1.00		
146	Supplier price	Plug-in socket for industrial electromagnetic relay with 3 contacts, without indicator, In=16 A, Un=440 V, Uc=230 V, 50 Hz, type RERB3-S or similar according to specifications	pc	1.00		
147	Supplier price	CH-type fuse element with gG characteristic, ETIM classification – EC000035, standards IEC 60269-1, IEC 60269-2, Icu=20 kA, In=2.0 A, Un=400 V, 50 Hz, type CH8x32 gG 2A/400V or similar according to specifications	Pc	1.00		

1	2	3	4	5	6	7
148	supplier price	Cylindrical fuse holder, ETIM classification - EC002705, In=20 A, Un=400 V, 50 Hz, type PCF 8 1p or similar according to specifications	pc	1.00		
149	supplier price	Residual current circuit breaker (RCBO), ETIM classification - EC000905, IEC/EN 61009 standards, Icu=10 kA, 1P+N, type A, tripping characteristic: C, In=16 A, 30 mA, Un=230 V, 50...60 Hz, type KZS-2M A or similar according to specifications	pcs	13.00		
150	supplier price	Mushroom-head stop button, ETIM classification - EC000225, IP65, contacts - 1NC, Un=24-230 V, 50 Hz, type ESE1Y-V1 or similar in terms of specifications	pc	1.00		
151	Supplier price	Recessed double-touch actuator pushbutton with illumination, ETIM classification - EC000221, IP65, Un=230 V, 50 Hz, type EGTI-Y or similar according to specifications	pcs	3.00		
152	Supplier price	Modular contactor with 4NO contacts, ETIM classification - EC001653, In=25 A, Un=400 V, Uc=230 V, 50...60 Hz, type R 25-40-R-230V AC or similar according to specifications	pcs	3.00		
153	supplier price	Surge protection, types T1, T2, T3, ETIM classification – EC001457, TN-C, 3P, Uc=300 V, Up=1.5 kV, Iimp=12.5 kA, Inom=20 kA, Imax=40 kA, type ETITEC ML T123 or similar according to specifications	pc	1.00		
		<i>Total</i>	lei			
		Total Distribution boards and accessories Including wages				
		3.2. Electrical installation items				
154	Supplier price	START-STOP control unit, with two recessed buttons (green – NO / red – NC), IP54, 10A, 660V	pcs	22.00		
155	Supplier price	Distribution box with terminals and cover, IP20	pcs	35.00		
156	supplier price	Distribution box with terminals and cover, IP54	pcs	8.00		
		<i>Total</i>	lei			
		Total Electrical Installation Items Including wages				
		3.3. Lighting equipment				
157	Supplier price	Spotlight with integrated LED module, die-cast aluminium housing,	pcs	18.00		

1	2	3	4	5	6	7
		tempered polycarbonate lens, adjustable, recessed mounting D=190 mm, luminous flux 1200 lm, light source colour 3000K / 4000K / 6500K, nominal luminous efficacy 114.00 lm/W, CRI – 80, beam angle - 100*, 10.5 W, 220–240 V, 50 / 60 Hz, IP40/54, IK03 (0.3 J), median service life L70B50 – 30,000 h, operating temperature –20...+40 °C, IEC protection class – II				
158	supplier price	Spotlight with integrated LED module, die-cast aluminium housing, tempered polycarbonate lens, adjustable, recessed mounting D=225 mm, luminous flux 2000 lm, light source colour 3000K / 4000K / 6500 K, nominal luminous efficacy 111.00 lm/W, CRI - 80, beam angle - 100*, 18 W, 220–240 V, 50 / 60 Hz, IP40/54, IK03 (0.3 J), median service life L70B50 – 30,000 h, operating temperature –20...+40 °C, IEC protection class – II	pcs	30.00		
159	supplier price	Lighting fixture with integrated LED module, white steel housing, flat textured polycarbonate diffuser, for installation on a suspended ceiling grid, power supply unit with DALI interface, dimensions 595x595x43(h) mm, luminous flux 3600 lm, light source colour temperature 4000K, nominal luminous efficacy 133 lm/W, CRI >90, UGR19, beam angle - 90*, 27 W, 220–240 V, 50/60 Hz, IP20/44, IK03 (0.30 J), median service life L90 – 50,000 h, operating temperature +10...+35 °C, IEC protection class – II	pcs	224.00		
160	supplier price	Lighting fixture with integrated LED module, steel housing, polycarbonate lens, adjustable, with DALI power supply unit, suspended ceiling mounting, dimensions 1200x200x73(h) mm, luminous flux 2800 lm, light source colour temperature 4000K, nominal luminous efficacy 138 lm/W, CRI >90, UGR19, beam angle - 84*, 23 W, 220–240 V, 50 / 60 Hz, IP20, IK02 (0.2 J), median useful life () L85 – 50,000 h, operating temperature +10...+40 °C, IEC	pcs	63.00		

1	2	3	4	5	6	7
		protection class – I, including ceiling suspension fixing kit				
161	supplier price	Lighting fixture with integrated LED module, high-quality injection-moulded polycarbonate (PC) housing, polycarbonate lens with a matt/textured finish integrated into the housing, suitable for wall mounting for board lighting, dimensions 1186x25x36(h) mm, luminous flux 1600 lm, light source colour temperature 4000K, nominal luminous efficacy 105.00 lm/W, CRI >80, UGR31, beam angle - 140°, 18 W, 220–240 V, 50/60 Hz, IP20, IK02 (0.20 J), median service life L65 – 50,000 h, operating temperature –20 to +40 °C, including fixing elements	pcs	24.00		
162	supplier price	Lighting fixture with integrated LED module, high-quality, impact-resistant polycarbonate (PC) housing, optics made of weathered polycarbonate with UV protection, surface-mounted, dimensions D390x85(h) mm, luminous flux 1350 lm, light source colour temperature 4000K, nominal luminous efficacy 110 lm/W, CRI >80, UGR22, beam angle - 120°, 12 W, 220–240 V, 50/60 Hz, IP65, IK10 (20.0 J), median service life L80 – 50,000 h, operating temperature –20 ... +40 °C, IEC protection class II, including fixing elements	pcs	3.00		
163	supplier price	3-hour emergency light fitting with wireless interface, made of polycarbonate, with LED module and RB 6.0V/0.8Ah battery, surface-mounted, ‘Exit + direction arrow’ indicator, dimensions 55 x 381 x 232 mm, luminous flux 270 lm, light source colour 5000K, nominal luminous efficacy 90 lm/W, beam angle - 235°, 5 W, 220–240 V, 50/60 Hz, IP40, IK03 (0.30 J), median service life L95 – 50,000 h, operating temperature –20...+40 °C, including fixing elements	pcs	21.00		
		<i>Total</i>	lei			
		Total Lighting equipment Including salary				
		<i>Total</i>	lei			
		<i>Supply and warehousing</i>	%			

1	2	3	4	5	6	7
		Total machinery and equipment Including wages				
		4. Commissioning and start-up works				
164	1-03-001-1	Single-pole switch with electromagnetic, thermal or combined trip mechanism	pcs	59.00		
165	1-03-002-4	Bi- or tri-pole switch with electromagnetic, thermal or combined trip mechanism, rated current up to 50 A	pcs	111.00		
166	1-12-021-1	Switchgear, voltage up to 1 kV (for power circuits) – Modular contactor	1 test	6.00		
167	1-12-021-1	Switchgear, voltage up to 1 kV (for power circuits) – Relays	1 test	1.00		
168	1-12-021-4	Surge protection, voltage up to 75 kV	1 test	17.00		
		<i>Total</i>	lei			
		<i>Social insurance</i>	24%			
		<i>Total</i>				
		<i>Overheads</i>	%			
		<i>Total</i>				
		<i>Budget surplus</i>	%			
		Total commissioning and start-up works Including wages				
		Total	lei			
		Total estimate: Including wages				

APPROVED:

Prepared by

Investor

(position, signature, surname, first name)

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