

**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. 2-2-8

Automatic security signalling system. Block B (2510 - SPA)

Prepared at current prices:

No. No.	Symbol, standards 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	10.00		
2	RpEJ09D	Filling of grooves in walls up to 50 cm ²	m	10.00		
3	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	20.00		
4	IzD09A applicative	Marking of panels with paint using a stencil in accordance with the markings in the project	pcs	3.00		
		<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>	%			
		Total construction works Including wages				
		2. Installation works				
5	08-02-409-1	Vinyl-plastic pipe on existing structures, on walls and columns, secured with clamps, diameter up to 25 mm	100 m	8.00		

1	2	3	4	5	6	7
6	supplier price	Corrugated PVC pipe with probe, crush resistance 750 N, d = 20 mm	linear metre	800.00		
7	08-02-390-1	Plastic ducts with cover, cross-section 25x16(h) mm, including all necessary fittings (elbows, plugs, tees, crosses, etc.)	100 m	1.20		
8	08-02-412-1	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 2.5 mm ²	100 m	14.00		
9	supplier price	Security signalling cable with solid copper core conductors, polymer compound insulation, multi-strand twisted conductors, aluminium foil shield and ground wire, halogen-free (LSZH) insulation, flame-retardant (EN 60332-1-2 test), low smoke emission (EN 61034-2 test) and free from corrosive gases (EN 60754-2 test), Un=300/500 V, with 4 conductors, cross-section 0.5 mm ²	linear metre	1,400.00		
10	08-02-412-2	Insertion of conductors into installed metal pipes and conduits: the first single-strand or multi-strand conductor in a common braid, total cross-section up to 6 mm ²	100 m	2.70		
11	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 3 × 1.0 mm ²	linear metre	70.00		
12	supplier price	Telecommunications cable with solid copper conductors, high-density polyethylene insulation, twisted pairs (4 pairs), Category 5e rated, with overall aluminium-polyester foil shielding (shielded), outer sheath made of standard polymer compound (PVC), flame-propagation resistance on a single cable (EN 60332-1-2 test), rated operating voltage Un=125 V, with 4 pairs, conductor cross-section 24 AWG (nominal diameter 0.51 mm)	linear metre	200.00		
13	08-03-572-3	Control unit, cabinet-type or distribution point (cabinet), wall-	pcs	3.00		

1	2	3	4	5	6	7
		mounted, height and width, mm, up to 600×600, IP31				
14	10-08-001-08	Receiver units – Central electronic module (control unit motherboard)	pc	1.00		
15	10-08-001-08	Receiver units: Expansion board for 8 zones	pcs	3.00		
16	10-08-003-03	Devices – power supply and control unit	pcs	3.00		
17	08-03-575-1	Device – 12 V sealed battery	pcs	3.00		
18	10-08-001-13	Keypad for security system	pc	1.00		
19	10-08-002-05	"SPA" Alarms – Combined PIR motion and glass break detector	pcs	32.00		
20	10-08-002-04	Automatic "SPA" alarms: contact-type, magnetic contact-type for windows and doors	pcs	20.00		
21	08-03-593-10	Flashing siren	100 pcs	0.02		
		<i>Total</i>	lei			
		<i>Social insurance</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				
22	Supplier price	Metal cabinet with front door, made of electrostatic powder-coated steel, IP31, external dimensions 500 x 400 x 150 mm, fitted with a padlock, DIN, N and PE rails	set	1.00		
23	supplier price	Hybrid central electronic module (control panel's motherboard) for control and signalling, featuring 8 detection zones on the board and expandable to 32 wired or wireless zones via dedicated buses for keypads and expansion modules; the hardware configuration provides between 8 and 32 programmable outputs, the configuration allows organisation into 16 partitions and 4 independent zones with automatic management via 28 independent timers; equipped with an integrated telephone communicator for monitoring, voicemail and remote	pc	1.00		

1	2	3	4	5	6	7
		control; the interface supports operation via touchscreen or LCD keypads, proximity cards and remote controls, the system supports 64+4+1 users and stores a log of 439 events with a print function; it is fitted with an RJ-type RS-232 serial port for firmware updates via a PC and an integrated 1.2 A switching power supply with diagnostics and battery charging; fully compliant with the European security standard EN 50131 Grade 3				
24	supplier price	Metal cabinet for expansion board with min. dimensions 330 x 370 x 150 mm, IP54, fitted with a padlock, DIN rails, N and PE terminals	pcs	2.00		
25	Supplier price	Hybrid electronic expansion module for 8 additional wired detection zones; the hardware supports NO, NC, EOL, 2EOL and 3EOL configurations with individual end-of-line resistor programming; fitted with a dedicated input for monitoring tampering of the housing and a dedicated power output for sensors, fully compliant with the European security standard EN 50131 Grade 3	pcs	3.00		
26	supplier price	Switching-mode backup power supply for powering 12 V DC devices within security systems, fitted with a connector for direct integration with modules; the hardware configuration provides a total output current of 4 A and allows operation with or without a sealed lead-acid backup battery, the configuration includes advanced circuits for monitoring the battery status, full protection against short circuits, overcharge and deep discharge, DIP switches for selecting a charging current of 0.5 A or 1 A, the interface is fitted with LED indicators for mains, battery and overcharge status, 3 open-collector (OC) outputs for remote fault signalling and a local audible alarm; the design allows for easy mounting on a 35 mm DIN rail or in dedicated enclosures; fully certified to the European safety standard EN 50131-6 Grade 2	pcs	3.00		

1	2	3	4	5	6	7
27	supplier price	Sealed lead-acid battery 12 V, 7 Ah	pcs	3.00		
28	Supplier price	Hybrid central keypad with LCD screen and protective cover, designed for daily operation and programming of anti-intrusion systems, with backlit keys and display, equipped with an integrated card and proximity tag reader (EM standard 125 kHz), hardware configuration including 2 programmable detection zones on the board with full support for EOL, 2EOL and 3EOL configurations, an alphanumeric LCD display with a standard configuration of 2 lines x 16 characters, LED indicators for system status, dedicated keys for rapid triggering of Panic, Fire and Help/Medical alarms, integrated audible signalling for selected events and an RJ-type RS-232 serial port for direct interfacing with GUARDX management software, with a maximum current consumption of 110 mA at a nominal voltage of 12 V DC, ensuring full compliance with the European standard EN 50131 Grade 3	pc	1.00		
29	supplier price	Combined PIR and glass break detector, integrating a passive infrared (PIR) sensor and Quad Linear Imaging technology for accurate analysis of human body dimensions, alongside a digital acoustic detector for glass breakage and cutting based on frequency spectrum and shock wave analysis, the hardware configuration offers a detection range of up to 15 m for the IR channel (90-degree angle) and up to 10 m for the acoustic channel; the configuration provides adjustable immunity to pets weighing between 15 and 25 kg, equipped with bidirectional temperature compensation, separate sensitivity calibration for both channels via dedicated potentiometers, 2 independent relay outputs with NC contacts (28 V DC, 0.1 A) and a tamper protection microswitch, optical indicators with 3 dedicated LEDs; powered by a nominal voltage ranging from 8.2 V to 16 V DC with	pcs	32.00		

1	2	3	4	5	6	7
		low current consumption of 18 mA in standby mode and 25.5 mA in alarm mode				
30	supplier price	Wired magnetic detector (reed switch) for monitoring the open status of doors and windows, comprising two elements with waterproof casings (the magnetic sensor and the magnet); its structure consists of two 1.1 kOhm resistors connected in a double-balanced ‘ ’ configuration (2EOL/NC), with an actuation distance (contact closure) is 18 mm and the opening distance is 28 mm; it operates at a maximum switching voltage of 20 V DC and a maximum current of 20 mA	pcs	20.00		
31	supplier price	Hybrid opto-acoustic warning device (wired siren), impact-resistant ABS housing, IP 31, for local signalling of alarm conditions via an internal piezoelectric speaker with a loud sound pressure level of 110 dB at a distance of 1 metre, and an integrated strobe light (flash) with a warning frequency of approximately 150 flashes per minute, configurable for independent control of the two components for operation in 3 distinct modes, supply voltage 10–14 V DC with optimised current consumption of 200 mA for the audio channel and 250 mA for the optical indicator	pcs	2.00		
		<i>Total</i>	lei			
		<i>Supply and storage</i>	%			
		Total plant and equipment Including wages				
		4. Commissioning and start-up work				
32	1-10-002-1	Signalling sector formation circuit (central, technical, local, emergency, warning, etc.)	1 sector	1.00		
33	1-10-001-1	Collection and processing of information signals from protection and automation devices for electrical and process systems	signal	58.00		
		<i>Total</i>	lei			
		<i>Social insurance</i>	24%			
		<i>Total</i>				
		<i>Overheads</i>	%			
		<i>Total</i>				

1	2	3	4	5	6	7
		<i>Budget surplus</i>	%			
		Total commissioning and start-up works Including wages				
		Total	lei			
		Total estimate: Including wages				

Prepared by

(position, signature, surname, first name)

Verified

(position, signature, surname, first name)