

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

(name of the facility)

WinEstimate

Cost Estimate-Offer No. 2-8-1

Smoke Control Systems

(name of works)

Coefficient for basic wages = 1,15

Coefficient for cost of machine operation = 1,15

No.	Norm symbol and resource code	Description of works	Unit of measure (U.M.)	Quantity according to the design data
1	2	3	4	5
		1. Equipment		
1	Supplier price	Smoke exhaust fan L = 21,000 m ³ /h, P = 500 Pa, Ne = 5.5 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-5.5-8-0.95), “ALPENTA”	pieces	3,00
	1	Smoke exhaust fan, L = 21,000 m ³ /h, P = 500 Pa, Ne = 5.5 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-5.5-8-0.95), ALPENTA	pieces	3,00
2	Supplier price	Smoke exhaust fan, L = 31,500 m ³ /h, P = 800 Pa, Ne = 15 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-15.0-6), “ALPENTA”	pieces	2,00
	1.1	Smoke exhaust fan, L = 31,500 m ³ /h, P = 800 Pa, Ne = 15 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-15.0-6), ALPENTA	pieces	2,00
3	Supplier price	Smoke exhaust fan, L = 15,750 m ³ /h, P = 650 Pa, Ne = 5.5 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-5.5-8-0.95), “ALPENTA”	pieces	4,00
	3	Smoke exhaust fan, L = 15,750 m ³ /h, P = 650 Pa, Ne = 5.5 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-5.5-8-0.95), ALPENTA	pieces	4,00
4	Supplier price	Smoke exhaust fan, L = 31,500 m ³ /h, P = 800 Pa, Ne = 15 kW, 3~ 380 V, 50 Hz,	pieces	2,00

1	2	3	4	5
		type (KROV91-080-DU400-H-00550/6-U1), "ALPENTA"		
	4	Smoke exhaust fan, L = 31,500 m ³ /h, P = 800 Pa, Ne = 15 kW, 3~ 380 V, 50 Hz, type (SEF-M-100-15.0-6), ALPENTA	pieces	2,00
5	Supplier price	Mounting base for smoke exhaust fan KROV-080, type (STAM402-88-H), "ALPENTA"	pieces	11,00
	5	Mounting base for smoke exhaust fan KROV-080, type (STAM402-88-H), "VEZA" DU400-H-00550/6-U1, ALPENTA	pieces	11,00
6	Supplier price	Fire damper 1000 × 400, fire resistance rating E160, with actuator 24 V, type UVSL-M-1000×400 (M-24V-E160), "KOMFOVENT"	pieces	4,00
	6	Fire damper 1000 × 400, fire resistance rating E160, with actuator 24 V, type UVSL-M-1000×400 (M-24V-E160), "KOMFOVENT"	pieces	4,00
7	Supplier price	Fire damper 1000 × 500, fire resistance rating E160, with actuator 24 V, type UVSL-M-1000×500 (M-24V-E160), "KOMFOVENT"	pieces	3,00
	7	Fire damper 1000 × 500, fire resistance rating E160, with actuator 24 V, type UVSL-M-1000×500 (M-24V-E160), "KOMFOVENT"	pieces	3,00
8	Supplier price	Fire damper 1500 × 500, fire resistance rating E160, with actuator 24 V, type UVSL-M-1500×500 (M-24V-E160), "KOMFOVENT"	pieces	6,00
	8	Fire damper 1500 × 500, fire resistance rating E160, with actuator 24 V, type UVSL-M-1500×500 (M-24V-E160), "KOMFOVENT"	pieces	6,00
9	Supplier price	Smoke vent 120 × 120 with electric control, opening angle 140°, mcr PROLIGHT C 120 × 120, type 1, "MERCOR PROOF"	pieces	6,00
	9	Smoke vent 120 × 120 with electric control, opening angle 140°, mcr PROLIGHT C 120 × 120, type 1, "Mercor Proof"	pieces	6,00
Total				
Storage and transportation expenses				
Total Equipment				
2. Installation Works				

1	2	3	4	5
10	VC03E	Installation of standardized double-inlet, low-noise radial fans, belt-driven, with airflow capacity 10,000–55,000 m ³ /h, equipped with electric motor 2.2–40 kW Small materials (gaskets, rags, kerosene, etc.) = 1,05	pieces	11,00
	7136060011900	Ventilation and air conditioning installer	man-hours	306,13
	2430226100814	Red lead primer G 355-6	kg	3,46
	2411115904512	Technical gaseous oxygen S2031	m ³	3,46
	2874115840443	Hexagonal thick nut type A M10	pieces	346,50
	2320316202533	Technical artificial grease, type D	kg	2,89
	2874115820625	Standard hexagonal bolt M10 × 80	pieces	346,50
	3410520001373	Truck crane, 5 ton-force (tf)	machine-hours	3,16
	2952270007602	Tirfor 1.5 ton-force (tf) cable puller	machine-hours	5,69
11	VB02A	Butterfly regulating damper installed on rectangular ducts type CFR-I, CFR-II, with perimeter 1000–1600 mm	pieces	13,00
	7136060011900	Ventilation and air conditioning installer	man-hours	51,73
	2874125895015	Rivet with semi-round head 6 × 10 mm	kg	0,22
	2411115904512	Technical gaseous oxygen S2031	m ³	0,65
	2874135840405	Standard hexagonal nut M6	pieces	364,00
	2430116103294	Red lead paint v.351-3 NTR 90	kg	1,95
	2874115883421	Spring washer M10	pieces	13,00
	2874125895163	Spring washer M5	pieces	104,00
	2874125881198	Flat washer for metal M6	pieces	364,00
	2874115800390	Hexagon head screw 6 × 30 mm	pieces	13,00
	2874115804669	Hexagon head screw M8 × 30, grade 6.8	pieces	13,00
	2874115895187	Hexagon head screw M5 × 16 mm	pieces	104,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	364,00
	2922140006702	Window crane	machine-hours	0,30
Total				
Social insurance				
Transportation of materials				
Storage expenses				
Total				
Overhead expenses				
Total				
Estimated profit				
Total Installation Works				
		3. Construction works		
12	CL20A	Prefabricated ventilation grilles made of black steel sheet, with manually	pieces	8,00

1	2	3	4	5
		adjustable louvers, painted and installed in masonry (rectangular mesh grille 1000 × 400, SHIA “KOMFOVENT”)		
	7122050013400	Bricklayer	man-hours	4,32
	9310060019920	Worker servicing ST	man-hours	0,28
	2874207327005	Knotted chain, diameter 2 mm	kg	1,20
	2811236306400	Rectangular mesh grille 1000 × 400 mm	pieces	8,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	4,00
13	CL20A	Prefabricated ventilation grilles made of black steel sheet, with manually adjustable louvers, painted and installed in masonry (rectangular mesh grille 1000 × 500, SHIA “KOMFOVENT”)	pieces	3,00
	7122050013400	Bricklayer	man-hours	1,62
	9310060019920	Worker servicing ST	man-hours	0,10
	2874207327005	Knotted chain, diameter 2 mm	kg	0,45
	2811236306500	Rectangular mesh grille 1000 × 500 mm	pieces	3,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	1,50
14	CL20A	Prefabricated ventilation grilles made of black steel sheet, with manually adjustable louvers, painted and installed in masonry (rectangular mesh grille 1200 × 600, SHIA “KOMFOVENT”)	pieces	4,00
	7122050013400	Bricklayer	man-hours	2,16
	9310060019920	Worker servicing ST	man-hours	0,14
	2874207327005	Knotted chain, diameter 2 mm	kg	0,60
	2811236306600	Rectangular mesh grille 1200 × 600 mm	pieces	4,00
	2651122100402	Metallurgical cement with additives M 30, bags S1500	kg	2,00
15	VA02C	Fabrication and installation of straight ventilation ducts made of 1.2 mm galvanized sheet steel, with rectangular section perimeter 1600–2500 mm Small materials (cleaning rags, electrical energy, etc.) = 1.00	m ²	43,20
	7136060011900	Ventilation and air conditioning installer	man-hours	162,95
	2413547308164	Technical calcium carbide (carbide) S102	kg	0,43
	2430226100814	Red lead primer G 355-6	kg	2,25
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	0,43
	2112517330399	Cardboard type I, 3.3 mm	kg	3,24

1	2	3	4	5
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	0,22
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	0,35
	2710703503596	Countersunk head rivet 3 × 9, OL34, S 1257	kg	73,44
	2411115904512	Technical gaseous oxygen S2031	m ³	1,30
	2320146200767	Distilled petroleum type 18/200	l	0,39
	2874135840405	Standard hexagonal nut M6	pieces	1 036,80
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	1,73
	2710403644000	Galvanized sheet steel, grade I, thickness 1.2 mm	kg	414,72
	2874125881198	Flat washer for metal M6	pieces	1 036,80
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	1 036,80
	3110500002401	Welding machine, 28–35 kW	machine-hours	2,48
	2922140006702	Window crane	machine-hours	3,97
16	VA02D	Fabrication and installation of straight ventilation ducts made of 1.2 mm galvanized sheet steel, with rectangular section perimeter 2500–4000 mm Small materials (cleaning rags, electrical energy, etc.) = 1.00	m ²	253,40
	7136060011900	Ventilation and air conditioning installer	man-hours	1 028,68
	2413547308164	Technical calcium carbide (carbide) S102	kg	5,07
	2430226100814	Red lead primer G 355-6	kg	26,35
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	2,53
	2112517330399	Cardboard type I, 3.3 mm	kg	38,01
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	5,07
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	2,03
	2710703504502	Steel angle 40 × 40 × 3 mm	kg	506,80
	2710703504760	Steel angle 40 × 40 × 4 mm	kg	646,17
	2411115904512	Technical gaseous oxygen S2031	m ³	15,20
	2320146200767	Distilled petroleum type 18/200	l	4,05
	2874135840405	Standard hexagonal nut M6	pieces	14 190,40
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	12,67
	2710403644000	Galvanized sheet steel, grade I, thickness 1.2 mm	kg	2 432,64
	2874125881198	Flat washer for metal M6	pieces	14 190,40
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	14 190,40
	3110500002401	Welding machine, 28–35 kW	machine-hours	43,71
	2922140006702	Window crane	machine-hours	29,14
17	VA16J	Special piece (branch), made of galvanized sheet steel or aluminium, thickness 0.5–1.5 mm, with rectangular section perimeter 2500–4000 mm	m ²	66,00
	7136060011900	Ventilation and air conditioning installer	man-hours	230,74
	2413547308164	Technical calcium carbide (carbide) S102	kg	2,64
	2710703504502	Steel angle 40 × 40 × 3 mm	kg	148,50
	2873155903088	Special electrodes Cu-Zn-Si	kg	6,27
	2881116001666	Dry glass sandpaper sheets 23 × 30 cm, grit 25, S 1581	pieces	13,20
	2412126100010	Red lead (minium)	kg	1,19

1	2	3	4	5
	2112517330399	Cardboard type I, 3.3 mm	kg	3,96
	2874125885675	Countersunk head rivet 3 × 6, OL34, S 1257	kg	1,21
	2874125885663	Countersunk head rivet 3 × 9, OL34, S 1257	kg	0,43
	2411115904512	Technical gaseous oxygen S2031	m ³	3,96
	2320146200767	Distilled petroleum type 18/200	l	0,26
	2874135840405	Standard hexagonal nut M6	pieces	3 696,00
	2735725903453	Welding wire, ordinary, diameter 3.25 mm	kg	2,64
	2710403644000	Galvanized sheet steel, grade I, thickness 1.2 mm	kg	718,08
	2874125881198	Flat washer for metal M6	pieces	3 696,00
	2874115819963	Hexagon head screw 6 × 25 mm	pieces	3 696,00
	3110500002401	Welding machine, 28–35 kW	machine-hours	11,38
	2922140006702	Window crane	machine-hours	5,31
18	IzH22A	Insulation of ducts with ready-made fire-resistant mineral wool shells E160, thickness 25 mm, density 105 kg/m ³ , with aluminium foil backing, 25 mm thickness	m ²	380,00
	7134050013240	Thermal insulator	man-hours	207,14
	1111000100031	Fire-resistant mineral wool mats E160, thickness 25 mm, density 105 kg/m ³ , with aluminium foil backing	m ²	391,40
	2734113805815	Galvanized soft steel wire, diameter 1.25 mm	kg	17,10
Total				
Social insurance (CAS)				
Transportation expenses				
Storage expenses				
Total				
Overhead expenses				
Total				
Estimated profit				
Total Construction works				

**Total estimate:
Including wages**

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26.02.2026

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