

**Building the jointly operated border
crossing point "Palanca" on the
territory of the Republic of Moldova**

(denumirea obiectivului)

Formular Nr.1
WinCmeta

Bill of Quantities № 5-2-2 DA

**Extension of the Customs Control area, including the access ways. Phase 2. Exit
from the Customs' area (UKR) (04 / 2015-0-DA)**

No.	Symbol of the standard and resource code	Works and expenses	U.M.	Quantity according to the design data	Estimate value, USD	
					Per U.M. incl. salary	Total incl. salary
1	2	3	4	5	6	7
		Chapter 1. Exit from the Customs' area PC 0 + 00 - PC 2 + 34				
		Chapter 1.1. Preparatory works				
1	DF22A	Removing the pillars for road traffic signs	piece	10,00		
2	DI155B	Cutting with the miller of the used asphalt concrete layer, having a drum width of 1000 mm, the depth of the layer: 10 cm	m2	530,00		
3	TsI50A1	Transportation of the ground with the dumper of 5 t at a distance of 1 km	t	105,00		
4	TsC51C	Works for unloading the soil in the storage, field category III	100 m3	0,48		
5	DI118	Mechanized scrapping of the coating of broken stone	m3	32,00		
6	TsI50A1	Transportation of the ground with the dumper of 5 t at a distance of 1 km	t	51,20		
7	TsC51C	Works for unloading the soil in the storage, field category III	100 m3	0,32		
8	TsC03F1	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, land cat. II.	100 m3	44,18		
9	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	7 289,70		
10	TsC51A	Works for unloading the soil in the storage, field category I	100 m3	44,18		
11	TsG08B	Mechanical sawing of softwood trees, including mauve transport of wood in warehouses, outside the area of works, trees 31 ... 50 cm in diameter	piece	8,00		
12	TsG07C	Removing hardwood and fir trees with manual means and transporting wood in warehouses, outside or in the work area, transporting by hand, the diameter of the roots or roots of 51 ... 70 cm	piece	8,00		
13	TrB22D1A 1	Transport of materials with 10 tf tire crane, fixed in fixed position, weight of materials 0-0,5 t and lifting height of 0-6 m (abandoned car)	t	4,00		
14	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	4,00		

1	2	3	4	5	6	7
15	TsC55A	Water pumping out of the excavations and tranches	m3	830,00		
16	TsC03F2 k=1.2	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in clayish grounds dipped with water, and unloading in motor vehicles of ground cat. II. Machinery coefficient = 1.200	100 m3	4,15		
17	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	825,85		
18	TsC51B	Works for unloading the soil in the storage, field category II	100 m3	4,15		
		Total Preparatory works Inclusiv salary				
		Chapter 1.2. Drainage system				
19	TsC03F2 k=1.2	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in clayish grounds dipped with water, and unloading in motor vehicles of ground cat. II. Machinery coefficient = 1.200	100 m3	4,60		
20	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	915,40		
21	TsC51B	Works for unloading the soil in the storage, field category II	100 m3	4,60		
22	TsC55A	Water pumping out of the excavations and tranches	m3	920,00		
23	DA06A1	Layer of natural aggregates of stone but M400, fraction 150-350 mm, with manual paving	m3	740,00		
24	DA06A1	Layer of natural aggregates of lime gravel M600, fraction 40-70 mm, with manual paving	m3	310,00		
25	DA06A1	Layer of natural aggregates of lime gravel M600, fraction 20-40 mm, with manual paving	m3	345,00		
26	DA06A1	Layer of natural aggregates of lime gravel M600, fraction 5-20 mm, with manual paving	m3	380,00		
27	DA19A	Anti-contaminating layer made of nonwoven synthetic filtering textile, thickness 2.2 mm, density 260 gr/m2	m2	1 380,00		
28	DA06B2	Layer of natural cylinder aggregates, having the function of filtering resistance, insulation, ventilation, anti-capillary, with manual coverage, with mix of sand/river gravel with a ratio of 1: 1	m3	415,00		
		Total Drainage system Inclusiv salary				
		Chapter 1.3. Earthworks				
29	DI95	Mechanized excavation of the gutters in ground of category II	100 m3	6,27		
30	TsC19C1	Mechanic digging with bulldozer on the crawler 81-180 HP, including the pushing of the ground up to 10m, in ground of category III	100 m3	5,01		
31	TsC22E1 k=2	Increase in use of hours-equipment art. TsC19 for transporting the ground for	100 m3	5,01		

1	2	3	4	5	6	7
		each additional 10 m, exceeding the distance envisaged for the respective items TSC19C1, for grounds of category III Labor efforts coefficient = 2.000 Materials coefficient = 2.000 Machinery coefficient = 2.000				
32	TsC03F1	Mechanic digging with excavator of 0.40-0.70 m ³ , with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, land cat. II.	100 m ³	125,75		
33	Supplier price	Price for clay for the earth bag (compacted condition)	m ³	12 575,00		
34	TsD32A	Executing the earth bags, bringing up to the minimum density of 1.65 kg/cm, on settled grounds through stratified rolling of the soil with the roller	100 m ³	125,75		
35	TsE05B	Levelling with motor grader up to 175 HP of the natural land field and of the groundwork platforms, by cutting the bumps and pushing the dug soil in the holes, land cat. II.	100m ²	84,25		
36	TsE06B	Preparing the ground platform for placing one insulating layer or a layer of sand or ballast, by manual leveling and compacting with the self-propelled static roller compressor, 10-12 t, in cohesive soil	100m ²	84,25		
37	TsE03B	Manual finishing (polishing) of slopes in medium ground	100m ²	20,90		
38	TsE02B	Manual finishing (polishing) of platforms in medium ground	100m ²	2,99		
39	TsH09B	Seeding the lawn on areas with slope under 30%	100m ²	20,90		
40	TsH09A	Seeding the lawn on horizontal areas and fields with a slope under 30%	100m ²	2,99		
		Total Earthworks				
		Inclusiv salary				
		Chapter 1.4. Road system				
41	DA06B2	Layer of natural cylinder aggregates, having the function of filtering resistance, insulation, ventilation, anti-capillary, with manual coverage, with sand	m ³	1 478,00		
42	DA10B	Road layer of granular material (pebble), stabilized with cement of 4% dosage, by mixing it in fixed stations, with mechanical laying	m ³	2 231,00		
43	DI107	Priming the surface of the main layers in order to apply a layer of asphaltic concrete	t	8,047		
44	DB16H	Asphalt concrete covering with small aggregates of type SMAg-I, executed in hot conditions, in thickness of 4.0 cm with mechanical laying	m ²	5 364,00		
45	DB19G	Asphalt concrete covering with big aggregate type SKPg-I, executed in hot conditions, in thickness of 6.0 cm with mechanical laying	m ²	5 364,00		
46	DB19G k=1.333	Asphalt concrete covering with big aggregate type SKVPg-I, executed in hot	m ²	5 364,00		

1	2	3	4	5	6	7
		conditions, in thickness of 6.0 cm with mechanical laying (thickness of 8 cm) Labor efforts coefficient = 1.333 Materials coefficient = 1.333 Machinery coefficient = 1.333				
47	DA19A	Geo-composite layer PGM-G 100/100 bedded on the road platform	m2	5 364,00		
48	DE10C	Pre-manufactured concrete borders, for pavements 30x15 cm, on concrete foundation C12/15 28x20 (h) cm	m	203,00		
		Total Road system Inclusiv salary				
		Chapter 1.5. Consolidation of roadsides				
49	DI134	Mechanized placement of the road clothing from crushed stone M300 using the method of wedging in one layer H=15 cm	100m2	5,06		
50	TsH06B	Coating the embankments with compacted vegetal ground, for their consolidation, executed on slopes with a height up to 4 m, the vegetal ground layer being 15 cm thick	m2	420,00		
51	TsH09A	Seeding the lawn on horizontal areas and fields with a slope under 30%	100m2	4,20		
52	TsH12B	Watering the areas with the hose from the tank	100m2	4,20		
		Total Consolidation of roadsides Inclusiv salary				
		Chapter 1.6. Signs, marking				
53	TsD01B	Spreading with the shovel of light earth in uniform layers, 10-30 cm thick, with a throw of up to 3 m of piles , including smashing of earth bolls from the medium ground	m3	45,30		
54	TsD05B	Compaction with the mechanical knocker of 150-200 kg filling in the successive layers of 20-30 cm thickness, excluding the watering of every layer separately, the earth fillings being executed from cohesive soil (executing the half-staff for planting the pillars)	100 m3	0,46		
55	CL18A	Diverse metallic confections from rolled profiles, plate, checker plate, steel, concrete, pipes for supporting or covering, totally or partially embedded in concrete	kg	93,80		
56	DF18A	Planting the pillars for industrially-manufactured road traffic signs made of galvanized metal of type CKM 2.30	piece	7,00		
57	DF18A	Planting the pillars for industrially-manufactured road traffic signs made of galvanized metal of type CKM 2.35	piece	2,00		
58	DF18A	Planting the pillars for industrially-manufactured road traffic signs made of galvanized metal of type CKM 2.40	piece	3,00		
59	DF18A	Planting the pillars for industrially-manufactured road traffic signs made of galvanized metal of type CKM 3.40	piece	2,00		
60	DF20B	Placing in localities the road signs on pillars of type B-700	piece	2,00		

1	2	3	4	5	6	7
61	DF20B	Placing in localities the road traffic signs on pillars of type D-700	piece	7,00		
62	DF20B	Placing in localities the road traffic signs on pillars of type A-900	piece	1,00		
63	DF20B	Placing in localities the road traffic signs on pillars of 350x1000 mm	piece	2,00		
64	DF20B	Placing in localities the road traffic signs on pillars 700x350 mm	piece	1,00		
65	DF20B	Placing in localities the road traffic signs on pillars 600x900 mm	piece	1,00		
66	DF20B	Placing in localities the road traffic signs on pillars of 900x1350 mm	piece	1,00		
67	DF20B	Placing in localities the road traffic signs on pillars of 1160x500 mm	piece	1,00		
68	DF20B	Placing in localities the road traffic signs on pillars of 1500x1200 mm	piece	1,00		
69	DF20B	Placing in localities the road traffic signs on pillars of 3000x1020 mm	piece	1,00		
70	DF11A	Plastic pillars for guiding the road traffic, containing complete pillar (marking post)	piece	109,00		
71	DF58A	Longitudinal, continuous road marking Type E on the road with thermoplastic elements, width 0.15 m	m2	68,60		
72	DF58A	Longitudinal, continuous road marking Type L on the road with thermoplastic elements, width 0.15 m	m2	74,50		
73	DF58A	Longitudinal road marking Type B, with 1 discontinued line at a ratio of 1:2 on the road with thermoplastic elements, width 0.15 m	m2	5,90		
74	DF58A	Longitudinal road marking Type D, with 1 discontinued line at a ratio of 1:2 on the road with thermoplastic elements, width 0.25 m	m2	6,80		
75	DF58A	Longitudinal road marking Type 1.12 on the road with thermoplastic elements	m2	2,80		
76	DF58A	Longitudinal road marking Type 1.16.1 on the road with thermoplastic elements	m2	63,30		
77	DF58A	Longitudinal road marking Type 1.16.2 on the road with thermoplastic elements	m2	15,90		
78	DF58A	Longitudinal road marking Type 1.16.3 on the road with thermoplastic elements	m2	2,24		
79	DF58A	Longitudinal road marking Type 1.18 on the road with thermoplastic elements	m2	12,80		
80	DF58A	Longitudinal road marking Type 1.19 on the road with thermoplastic elements	m2	12,50		
81	DF57A	Performing the artificial road roughness ("stretched policeman") on the carriage made of pre-manufactured elements - removable: medium, length 490 mm, width 450 mm, height 50 mm	piece	14,00		
		Total Signs, marking Inclusiv salary				
		Chapter 1.7. Sidewalk				
82	TsA04B1	Manual excavation of land, in confined space, having the width under 1m and maximum depth of 4.5 m, executed with supporters, with manual evacuation, in	m3	7,00		

1	2	3	4	5	6	7
		foundations, sewers, roads in soils with natural humidity, depth of digging 0-1.5 m of medium ground				
83	TsE02B	Manual finishing (polishing) of platforms in medium ground	100m2	0,15		
84	DA06A1	Layer of natural cylinder aggregates, having the function of filtering resistance, insulation, ventilation, anti-capillary, with manual coverage of gravel M400 fr. 20-40 mm	m3	3,00		
85	DE10C	Pre-manufactured concrete borders, for sidewalks 20x8 cm, on concrete foundation C12/15 18x20(h)	m	10,00		
86	DE10C	Pre-manufactured concrete borders, for pavements 30x15 cm, on concrete foundation C12/15 28x20 (h) cm	m	21,00		
87	DI107	Priming the surface of the main layers in order to apply a layer of asphaltic concrete	t	0,01		
88	DE12C	Poured asphalt of type SMBg MII, executed for sidewalks, on the existing foundation, in thickness of 3.0 cm	m2	15,00		
		Total Sidewalk Inclusiv salary				
		Total Exit from the Customs' area PC 0+00 - PC 2+34 Inclusiv salary				
		Total	\$			
		Social and health insurance	27,50 %			
		Total	100,00 +			
		<i>Overhead costs</i>	%			
		Total	100,00 +			
		Estimate benefit	%			
		Total deviz: Inclusiv salariu				

Intocmit

(funcția, semnătura, numele, prenumele)

Verificat

(funcția, semnătura, numele, prenumele)

**Building the jointly operated border
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(denumirea obiectivului)

Formular Nr.1
WinCmeta

**Bill of Quantities No. 6-4
External electrical lighting Phase 2 (04/2015-0-IEE)**

No. crt.	Symbol of the norm and resource code	Name of works	Unit of measure	Quantity according to the design data	Estimate value, USD	
					Per U.M. incl. salary	Total incl. salary
1	2	3	4	5	6	7
		Chapter 1. Construction works Chapter 1.1. Foundations under pillars (04/2015-0-IEE.D1)				
1	FjG01B F	Dry shaft executed manually in grounds of class I and II, down to 32 m depth, with diameter of 1000 mm (adopted)	m	28,60		
2	TsC54C	Foundation layer of gravel fr. 20-40 mm	m3	1,82		
3	CB03B	Formwork of reusable panels, with plywood of 15mm for pouring concrete in elevations, straight walls up to 6 m high inclusively, supporters being included	m2	81,64		
4	CC02K	Reinforced concrete steel shaped in OB 37 construction shops, with bars over 8 mm diameter and mounted on beams and pillars, at heights smaller or equal to 35 m, excluding constructions executed with sliding formwork	kg	60,32		
5	CC02L2	Concrete steel fittings shaped in PC 52 construction shops, with bars over 8 mm diameter and mounted on beams and pillars, at heights less than or equal to 35 m, excluding constructions executed with sliding formwork	kg	280,80		
6	CL18A	Diverse metallic confections from rolled profiles, plate, checker plate, steel, concrete, pipes for supporting or covering, totally or partially embedded in concrete (bolt 1.1M 24x800 Вет3пс2)	kg	355,68		
7	CA03G	Reinforced concrete, poured with classical means, in foundations, basements, support walls, under zero - share walls, concrete poured with classical means, reinforced concrete class C20/25 (M350) F50 Small materials (resinous cases, nails,	m3	11,18		

1	2	3	4	5	6	7
		clamps) = 1.015				
8	TsD01B	Spreading with the shovel of light earth in uniform layers, 10-30 cm thick, with a throw of up to 3 m of piles , including smashing of earth bolls from the medium ground	m3	9,46		
9	TsD05B	Compaction with the mechanical knocker of 150-200 kg filling in the successive layers of 20-30 cm thickness, excluding the watering of every layer separately, the earth fillings being executed from cohesive soil	100 m3	0,09		
10	TsC03F1 k=1.2	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, ground cat. II. Machinery coefficient = 1.200	100 m3	0,13		
11	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	21,45		
12	TsC51B	Works for unloading the soil in the storage, field category II	100 m3	0,13		
		Total Foundations under pillars (04/2015-0-IEE.D1)				
		Chapter 1.2. Construction works (04/2015-0-IEE)				
13	TsC03B1 k=1.2	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in the storage of ground cat. II. Machinery coefficient = 1.200	100 m3	2,99		
14	TsC03F1 k=1.2	Mechanic digging with excavator of 0.40-0.70 m3, with internal combustion engine and hydraulic command, in grounds with natural humidity, and unloading in motor-cars, ground cat. II. Machinery coefficient = 1.200	100 m3	0,16		
15	TsI50A4	Transportation of the ground with the dumper of 5 t at a distance of 4 km	t	26,40		
16	TsC51B	Works for unloading the soil in the storage, field category II	100 m3	0,16		
17	34-02-003-1	Executing the pipe line from technical polyethylene pipes D=40 mm	1 km	1,00		
18	TsD18B	Compacted filling of the ditches, for the buried cables of high voltage electricity lines, made with ground came from medium grounds	m3	299,00		
		Total Construction works (04/2015-0-IEE)				
		Total	\$			
		Social and health insurance	27,50 %			
		Transportation costs	%			
		Storage costs	%			

1	2	3	4	5	6	7
		Direct costs		100,00 +		
		<i>Overhead costs</i>		%		
		Total		100,00 +		
		Estimate benefit		%		
		Total Lucrari de constructie Inclusiv salariu				
		Chapter 2. Mounting works				
19	08-03-526-1	Mono-, bi-, three-poles automate, mounted on the wall or column construction, electricity up to 25 A (BH32, BA47-29)	piece	1,00		
20	08-03-573-4	Suspended command box (switchboard), height, width, and depth, mm, up to 600x600x350 (ЩМП)	piece	1,00		
21	RpEP18A	Applying the inscriptions PM and TS on the doors of the supply point	piece	1,00		
22	08-03-526-1	Mono-, bi-, three-poles automate, mounted on the wall or column construction, electricity up to 25 A (BA47-29, BH32, ABДТ32, ABДТ34)	piece	1,00		
23	08-03-534-1	Universal commutator protected from dust and water, assembled on the construction, on the wall or column, the quantity of sections up to 4 (LAY5-BG45)	piece	1,00		
24	08-03-575-1	Device or appliance dismantled before transportation (programmed switcher ТЭ-15, button SB-7, relay РЭК78/4)	piece	4,00		
25	08-03-529-1	Continuous power contactor on constructions, electricity up to 160 A (КМИ)	piece	1,00		
26	08-02-369-2	Light fitting installed outside the buildings, with LED bulbs	piece	26,00		
27	08-02-412-4	Introducing conductors in laid metal pipes and hoses: the first conductor is mono-strand or multi-strands in joint braiding, summary section up to 35 mm ² (C2XY-F 3x6,0)	100 m	2,70		
28	Supplier price	Cable C2XY-F 3x6.0 mm ²	m	270,00		
29	08-02-412-4	Introducing conductors in laid metal pipes and hoses: the first conductor is mono-strand or multi-strands in joint braiding, summary section up to 35 mm ² (C2XY-F 3x10)	100 m	8,20		
30	Supplier price	Cable C2XY-F 3x10 mm ²	m	820,00		
31	08-02-412-1	Introducing conductors in metal pipes and hoses: the first conductor is mono-strand or multi-strands in joint braiding, summary section up to 2,5 mm ² (ИПГН 1x2,5)	100 m	6,20		
32	Supplier price	Thread ИПГН 1x2.5 mm ²	m	620,00		
33	33-01-016-1	Assembling the steel pillars S235JRG2, galvanized in hot	t	1,846		

1	2	3	4	5	6	7
		conditions, for support, self-standing, on one stand, weight up to 2 t, EUROPOLES or similar production (CC 7m, 62/160/4 mm - 26 pieces)				
34	08-02-363-1	Special metallic consoles welded on the columns for the light fittings, quantity of bulbs 1	piece	26,00		
35	Supplier price	Steel metallic back leg S235JRG2, galvanized in hot conditions, with a simple straight arm of type WPD 1/1.5/10 fi60	piece	26,00		
36	08-03-526-1	Mono-, bi-, three-poles automate, mounted on the wall or column construction, electricity up to 25 A (BA47-29)	piece	26,00		
37	08-03-574-1	Installations on devices and connecting the cable threads or conductors of exterior network to the blocks of the clamps and to the clamps of devices and mechanisms: cables or conductors, section up to 10 mm ²	100 cables	0,78		
38	08-02-142-1	Executing the bedding for one single cable in the ditch	100 m	10,00		
39	Supplier price	Sand	m ³	10,00		
40	08-02-143-1	Covering the cable, placed in the ditch: with bricks, one single cable	100 m	10,00		
41	Supplier price	Construction bricks 250x120x65 mm	piece	2 930,00		
42	08-02-406-1	Metallic constructions for pipes: clamps or constructions, type "II"	t	0,05		
		Total	\$			
		Social and health insurance	27,50 %			
		Transportation costs	%			
		Storage costs	%			
		Direct costs	100,00 +			
		<i>Overhead costs</i>	%			
		Total	100,00 +			
		Estimate benefit	%			
		Total Mounting works				
		Chapter 3. Equipment				
43	Supplier price	Automated switcher of type BA47-29M, 1P, 16A, °B°	piece	1,00		
44	Supplier price	Case mounted on the wall ШММ-1-074 Y2, IP54	piece	1,00		
45	Supplier price	Automated switcher of type BA47-29M, 1P, 10A, °B°	piece	1,00		
46	Supplier price	Commutator LAY5-BG45 with key BSW80-BG-2-K02	piece	1,00		
47	Supplier price	Intermediary relay РЭК 78/4. 3A. 230V	piece	1,00		
48	Supplier price	Contractor КМИ 11810, 18A, 230 V	piece	1,00		
49	Supplier price	Button SB-7	piece	2,00		
50	Supplier	Timer ТЭ15	piece	1,00		

1	2	3	4	5	6	7
	price					
51	Supplier price	Street light fitting with LED light source, light flow 5000-6000 Lm, 50W, 230V, IP65	piece	26,00		
52	Supplier price	Automated switcher of type BA47-29M, 2P, 2A, °B°	piece	26,00		
53	Supplier price	Clips of type ЗНИ-6	piece	78,00		
54	Supplier price	DIN-Sina L=1.0 m	m	2,60		
		<i>Total</i>		\$		
		Storage costs		%		
		Total Equipment incl. salary				
		Total Inclsiv salary				

Intocmit

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Verificat

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