

LIMIT FUND BILL OF QUANTITIES

OBJECT: "PERFORMANCE-BASED WINTER AND ROUTINE MAINTENANCE, PERMET - CARSHOVE ROAD + CARSHOVE - THREE BRIDGES (CUSTOMS) ROAD + CARSHOVE - LESKOVIK ROAD 49.5 KM"

PERIOD: 48 months

DRAFTING PERIOD: MAY 2020

SUMMARY OF BILL OF QUANTITIES

Road No.	Index	Road name	Length (km)	Period (month)	Price (ALL/km/month)	Amount (ALL)
			a	b	c	(a*b*c)
		ROUTINE MAINTENANCE				
SH-75	1/1	Permet - Carshove	27.2	48		
SH-80	1/2	Carshove - Three Bridges (Customs)	7.6	48		
SH-75	1/3	Carshove - Leskovik	14.7	48		
	1	ROUTINE MAINTENANCE SUM	49.5			
	2	EMERGENCY WORKS	(3% of routine works)			
	3	PERIODIC WORKS	(carried from periodic works bill of quantities)			
		SUM 1+2+3				
		20% VAT				
		TOTAL				

Note: With regards to routine maintenance bid price the economic operators should refer to technical specifications, analyses of work processes for this item, as well as technical description of each road segment.

ROUTINE MAINTENANCE BILL OF QUANTITIES

OBJECT: "PERFORMANCE-BASED WINTER AND ROUTINE MAINTENANCE, PERMET - CARSHOVE ROAD + CARSHOVE - THREE BRIDGES (CUSTOMS) ROAD + CARSHOVE - LESKOVIK ROAD 49.5 KM"

PERIOD: 48 months

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TABLE 1/1 (ROUTINE MAINTENANCE,, PERMET - CARSHOVE ROAD AXIS 27.2 KM)

Item No.	Description	Unit	Price (ALL/km/month)
A	ROUTINE MAINTENANCE		asphalt road

1	Cleaning of roadside ditches and gutters	month	
2	Cleaning of existing circular and box culverts	month	
3	Filling and leveling of shoulders	month	
4	Removal of vegetation	month	
5	Cleaning of carriageway from alluvium and other materials	month	
6	Repair of asphalt potholes	month	
7	Filling and profiling of subgrades in asphalt roads	month	
8	Repair and upgrade of horizontal road signs	month	
9	Repair and upgrade of vertical road signs and road safety (guardrails) and lighting devices	month	
10	Routine maintenance of art works	month	
	TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)	SUM A	

TABLE 1/2 (WINTER AND ROUTINE MAINTENANCE, CARSHOVE - THREE BRIDGES (CUSTOMS) ROAD AXIS 7.6 KM)

Item No.	Description	Unit	Price (ALL/km/month)
A	ROUTINE MAINTENANCE		asphalt road
1	Cleaning of roadside ditches and gutters	month	
2	Cleaning of existing circular and box culverts	month	
3	Filling and leveling of shoulders	month	
4	Removal of vegetation	month	
5	Cleaning of carriageway from alluvium and other materials	month	
6	Repair of asphalt potholes	month	
7	Filling and profiling of subgrades in asphalt roads	month	
8	Repair and upgrade of horizontal road signs	month	
9	Repair and upgrade of vertical road signs and road safety (guardrails) and lighting devices	month	
10	Routine maintenance of art works	month	
	TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)	SUM A	
	WINTER MAINTENANCE (ALL/km/month)	SUM B	
	TOTAL PRICE OF WINTER AND ROUTINE MAINTENANCE (ALL/km/month)	SUM A+B	

TABLE 1/3 (WINTER AND ROUTINE MAINTENANCE, CARSHOVE -LESKOVIK ROAD AXIS 14.7 KM)

Item No.	Description	Unit	Price (ALL/km/month)
	ROUTINE MAINTENANCE		non-asphalt road
1	Cleaning of roadside ditches and gutters	month	
2	Cleaning of existing circular and box culverts	month	
3	Removal of vegetation	month	
4	Cleaning of carriageway from alluvium and other materials	month	
5	Filling and profiling of subgrades in unpaved roads	month	
6	Routine maintenance of art works	month	
	TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)	SUM A	

BILL OF QUANTITIES FOR PERIODIC/REHABILITATION WORKS

OBJECT: "PERFORMANCE-BASED WINTER AND ROUTINE MAINTENANCE, PERMET - CARSHOVE ROAD + CARSHOVE - THREE BRIDGES (CUSTOMS) ROAD + CARSHOVE - LESKOVIK ROAD 49.5 KM"

PERIOD: 48 months

DRAFTING PERIOD: MAY 2020

TABLE 3 (BILL OF QUANTITIES FOR PERIODIC/REHABILITATION WORKS 49.5 KM)

No.	No.	WORKS DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
		EXCAVATION WORKS				
1	3.89/a	Soil excavation by wheeled excavators 0.25 m ³ , in ditches with a width up to 2 m, ordinary soil, category III, unloaded in vehicles	m3	100		
2	3.158/3a	Soil transportation by trucks in a distance up to 3.0 km	m3	500		
3	3,161/2	Leveling of escarpments through excavation, excavator 0.25m ³	m2	1000		
4	An.124/3a	Free section rock excavation by the use small mines and excavator 1m ³ + transportation	m3	100		
5	An.164/1a	Filling of road track with gravel and quarry stones, spread and compacted by machines	m3	100		
		LAYER WORKS				
6	3.212/c	Stabilizing layer t=15cm	m2	450		
7	3.212/d	Stabilizing layer t=20cm	m2	450		
8	An	Scarifying of asphalt layers by machines	m2	450		
		ASPHALT WORKS				
9	3.222/2	Binder layer with crushed stones and quarry stones, 6cm, by machines	m2	450		
10	3.226/1	Asphalt concrete layer with crushed stones and quarry stones, 4cm, by machines	m2	5000		
		CONCRETE AND REINFORCED CONCRETE WORKS				
11	3.235	Monolithic b/concrete construction C 12/15 with 20% stone	m3	50		
12	3.245/1	Thin monolithic concrete structures C 25/30	m3	20		

13	3.246	Monolithic concrete structures with gravel C 20/25	m3	100		
14	3.268	Supply and installation of rectangular culverts b/a C 16/20	m3	15		
		REINFORCED CONCRETE WORKS				
15	3.287	Supply and installation of common rebars \varnothing 6 ~ 10mm	tons	1		
16	3.288	Supply and installation of common rebars \varnothing > 12mm	tons	1		
		CONSTRUCTION OF ART WORKS				
17	3.323	Stone retaining wall, M50 cement mortar	m3	50		
18	3.332	Gabion walls with galvanized wire mesh, crushed stone 1x1x1.5 m	m3	20		
19	3.352	Filling with quarry stones	m3	50		
20	3.366	Culverts with concrete pipes \varnothing 800, above the concrete layer	m	8		
21	3.367	Culverts with concrete pipes \varnothing 1000, above the concrete layer	m	8		
22	An-8	Filling the walls with gravel	m3	50		
		DIFFERENT WORKS				
23	3.618	Supply and installation of concrete kerbs 20x35 cm	m	50		
24	3.636	Precast metal bridge parapets	tons	1		
		ROAD SIGNS WORKS				
25	An4	H1 W3 single-sided guardrail with 2 wave beams + accessories (road)	ml	500		
26	An35	Single-sided concrete parapet (\varnothing 60) + accessories (bridge)	ml	10		
27	An106	Common triangular sign board with A = 90	pcs	2		
28	An116	Common side road marking lines with two senses (red + white)	pcs	800		
29	An118	(Single) turn dotted marking lines	pcs	5		
30	An119	(Double) turn dotted marking lines	pcs	20		
31	An120	Mild or sharp (T-shaped) turn marking lines	pcs	5		
32	An151	Road marking lines with bicomponent paint	m2	6500		
33	An147	Audible lines (with gel bicomponent paint + beads 5 kg/m2)	m2	30		
34	An156	Supply and installation of road indication sign boards 150x40cm	pcs	5		
35	An158	Supply and installation of different road sign boards D=60cm	pcs	250		
		TOTAL				