

### LIMIT FUND BILL OF QUANTITIES

**OBJECT:** "PERFORMANCE-BASED ROUTINE MAINTENANCE, K/MUZINE - DELVINE ROAD + DELVINE - QAFE GJASHTE ROAD + KARDHIQ BRIDGE - PRONGJI ROAD + VERGO - K/SHIJAN ROAD + VERGO - PRONGJI ROAD (LOT 4+5+6) 59.1 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)	
<b>ROUTINE MAINTENANCE</b>							
SH-78	1/1	K/Muzine - Delvine	15	48			
SH-78	1/2	Delvine - Qafe Gjashte	13.2	48			
N/A	1/3	Kardhiq Bridge - Prongji (lot 1)	7.2	48			
N/A	1/4	Vergo - K/Shijan (lot 2+3)	9.2	48			
N/A	1/5	Vergo - Prongji (lot 4+5+6)	14.5	24			
N/A	1/6	Vergo - Prongji (lot 4+5+6) (within warranty period)	14.5	24			
	<b>1</b>	<b>ROUTINE MAINTENANCE SUM</b>	59.1				
	<b>2</b>	<b>EMERGENCY WORKS</b>	<b>(3% of routine works)</b>				
	<b>3</b>	<b>PERIODIC WORKS</b>	<b>(carried from periodic works bill of quantities)</b>				
		<b>SUM 1+2+3</b>					
		<b>20% VAT</b>					
		<b>TOTAL</b>					

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 ROUTINE MAINTENANCE, K/MUZINE - DELVINE ROAD + DELVINE - QAFE GJASHTE ROAD + KARDHIQ BRIDGE - PRONGJI ROAD + VERGO - K/SHIJAN ROAD + VERGO - PRONGJI ROAD (LOT 4+5+6) 59.1 KM"

**PERIOD:** 48 months

**DRAFTING PERIOD:** MAY 2020

**TABLE 1/1 (ROUTINE MAINTENANCE, K/MUZINE - DELVINE ROAD AXIS 15 KM)**

Item No.	Description	Unit	Price (ALL/km/month)
<b>ROUTINE MAINTENANCE</b>			<b>non-asphalt road</b>
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	
<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>		<b>SUM A</b>	

**TABLE 1/2 (ROUTINE MAINTENANCE, DELVINE - QAFE GJASHTE ROAD AXIS 13.2 KM)**

Item No.	Description	Unit	Price (ALL/km/month)
<b>ROUTINE MAINTENANCE</b>			<b>asphalt road</b>
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	
<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>		<b>SUM A</b>	

**TABLE 1/3 (ROUTINE MAINTENANCE, KARDHIQ BRIDGE - PRONGJI ROAD AXIS (LOT 1) 7.2 KM)**

Item No.	Description	Unit	Price (ALL/km/month)
<b>ROUTINE MAINTENANCE</b>			<b>asphalt road</b>
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	
	<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>	<b>SUM A</b>	

**TABLE 1/4 (ROUTINE MAINTENANCE, VERGO - K/SHIJAN ROAD AXIS (LOT 2+3) 9.2 KM)**

Item No.	Description	Unit	Price (ALL/km/month)
	<b>ROUTINE MAINTENANCE</b>		<b>asphalt road</b>
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	
	<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>	<b>SUM A</b>	

**TABLE 1/5 (ROUTINE MAINTENANCE, VERGO - PRONGJI ROAD AXIS (LOT 4+5+6) 14.5 KM)**

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

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	
	<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>	<b>SUM A</b>	

**TABLE 1/6 (ROUTINE MAINTENANCE, VERGO - PRONGJI ROAD AXIS (LOT 4+5+6) WITHIN WARRANTY PERIOD 14.5**

Item No.	Description	Unit	Price (ALL/km/month)
	<b>ROUTINE MAINTENANCE</b>		<del>asphalt road</del> within warranty period
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	
	<b>TOTAL PRICE OF ROUTINE MAINTENANCE (ALL/km/month)</b>	<b>SUM A</b>	

### **BILL OF QUANTITIES FOR PERIODIC/REHABILITATION WORKS**

**OBJECT:** "PERFORMANCE-BASED ROUTINE MAINTENANCE, K/MUZINE - DELVINE ROAD + DELVINE - QAFE GJASHTE ROAD + KARDHIQ BRIDGE - PRONGJI ROAD + VERGO - K/SHIJAN ROAD + VERGO - PRONGJI ROAD (LOT 4+5+6) 59.1 KM"

**PERIOD:** 48 months

**DRAFTING PERIOD:** MAY 2020

**TABLE 3 (BILL OF QUANTITIES FOR PERIODIC/REHABILITATION WORKS 59.1 KM)**

No.	No.	WORKS DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
		<b>EXCAVATION WORKS</b>				
1	3.89/a	Soil excavation by wheeled excavators 0.25 m <sup>3</sup> , in ditches with a width up to 2 m, ordinary soil, category III, unloaded in vehicles	m3	200		

2	3.158/3a	Soil transportation by trucks in a distance up to 3.0 km	m3	200		
3	3.161/2	Leveling of escarpments through excavation, excavator $\geq 25m^3$	m2	1000		
4	An.124/3a	Free section rock excavation by the use small mines and excavator $1m^3$ + transportation	m3	200		
5	An.164/1a	Filling of road track with gravel and quarry stones, spread and compacted by machines	m3	200		
		<b>LAYER WORKS</b>				
6	3.212/c	Stabilizing layer t=15cm	m2	600		
7	3.212/d	Stabilizing layer t=20cm	m2	600		
8	An	Scarifying of asphalt layers by machines	m2	600		
		<b>ASPHALT WORKS</b>				
9	3.222/2	Binder layer with crushed stones and quarry stones, 6cm, by machines	m2	600		
10	3.226/1	Asphalt concrete layer with crushed stones and quarry stones, 4cm, by machines	m2	10000		
		<b>CONCRETE AND REINFORCED CONCRETE WORKS</b>				
11	3.235	Monolithic b/concrete construction C 12/15 with 20% stone	m3	100		
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	20		
		<b>REINFORCED CONCRETE WORKS</b>				
15	3.287	Supply and installation of common rebars $\varnothing 6 \sim 10mm$	tons	1		
16	3.288	Supply and installation of common rebars $\varnothing > 12mm$	tons	1		
		<b>CONSTRUCTION OF ART WORKS</b>				
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	50		
19	3.352	Filling with quarry stones	m3	50		
20	3.366	Culverts with concrete pipes $\varnothing 800$ , above the concrete layer	m	20		
21	3.367	Culverts with concrete pipes $\varnothing 1000$ , above the concrete layer	m	20		
22	An-8	Filling the walls with gravel	m3	50		
		<b>DIFFERENT WORKS</b>				
23	3.618	Supply and installation of concrete kerbs 20x35 cm	m	50		
24	3.636	Precast metal bridge parapets	tons	1		
		<b>ROAD SIGNS WORKS</b>				
25	An4	H1 W3 single-sided guardrail with 2 wave beams + accessories (road)	ml	1200		
26	An35	Single-sided concrete parapet ( $\varnothing 60$ ) + accessories (bridge)	ml	50		
27	An106	Common triangular sign board with A = 90	pcs	2		
28	An116	Common side road marking lines with two senses (red + white)	pcs	1500		
29	An118	(Single) turn dotted marking lines	pcs	20		
30	An119	(Double) turn dotted marking lines	pcs	30		
31	An120	Mild or sharp (T-shaped) turn marking lines	pcs	20		
32	An151	Road marking lines with bicomponent paint	m2	6000		
33	An147	Audible lines (with gel bicomponent paint + beads 5 kg/m2)	m2	100		
34	An156	Supply and installation of road indication sign boards 150x40cm	pcs	20		
35	An158	Supply and installation of different road sign boards $\varnothing=60cm$	pcs	500		

			TOTAL	
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