

PREVENTIV PUNIMESH

OBJEKTI : ZGJERIMI I SUPERSTRADES TIRANE - DURRES FAZA III

No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
<i>I. (Nyje disnivel Nr1 , Mbikalimi Kashar , Aksi rrugor km 6+00 - km7+050 Nënkalimi Limuthit dhe Rruget Sekondare Kryesore MSNo3, MSNo4)</i>						
		<i>A. Nyja ne disnivel NR.1, Mbikalimi Kashar & Rruga Sekondare Kryesore MSNo3,afër nyjes.</i>				
		A1- BillI: Earthworks, Demolition of existing Structures, and Reallocation of Utilities / Punime mbushje germim, Punimet e prishjes se strukturave ekzistuese dhe Rialokimi I Linjave ekzistuese Inxhinierik				
		a.Demolition of Existing Kashar Overpass / Shembja e Mbikalimit Ekzistues te Kasharit				
1		Demolition of concrete superstructures in height over 4 m / Prishje mbistrukture prej betoni ne lartesi mbi 4 m	m3	183.00		
2		Disassemble of beams and removable joints in height over 4 m / Cmontim traresh dhe pjese te cmontueshme te ures ne lartesi mbi 4 m	ml	180.00		
3		Demolition of concrete structures / Prishje strukture betoni	m3	607.50		
SubTotal Demolition of Existing Kashar Overpass / Shembja e Mbikalimit Ekzistues te Kasharit/ total (a)						
		b.Demolition(Removal)of existing Structures and Reallocation of Utilities - Punimet e Prishjes(Heqjes) se strukturave ekzistuese dhe Rialokimi I Linjave ekzistuese Inxhinierike.				
1		Reallocations of existing Albtelecom Optic Fiber Cable / Rialokimi I Linjave ekzistuese te Fibrave Optike te Albtelekomit	km	0.70		
2		Removal of existing pile lighting (in the side of the road)) with stockage in the site yard of Lot 1 / Heqja e shtyllave ekzistuese te ndricimit (anes rruges) me depozitim ne kantierin e Lotit 1	pcs	40.00		
Total Demolition(Removal)of existing Structures and Reallocation of Utilities - Punimet e Prishjes(Heqjes) se strukturave ekzistuese dhe Rialokimi I Linjave ekzistuese Inxhinierike./ total(b)						
Bill No. 1 : Earthworks, Demolition of existing Structures, and Reallocation of Utilities / Punime mbushje germim, Punimet e prishjes se strukturave ekzistuese dhe Rialokimi I Linjave ekzistuese Inxhinierike/ Shuma A1 (a+b)						
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
A.2 - Culvert and Drainage System / Tombinot dhe Sistemi I Drenimitne Nyjen ne Disnivel Nr.1-Kashar						
a. PC-49 New RC Pipe culvert Ø 1000 KM 0+025,14 (Axis OP) - KM 0+025,63- (Axis R3)/ PC-49 Tombino e re rrethore betoni Ø 1000 KM 0+025,14 (Axis OP) - KM 0+025,63- (Axis R3)						
1		Refill with drainage material/ Mbushje me zhavor	m ³	8.00		
2		Concrete Pipe culvert Ø 1000 / Tombino rrethore Betoni Ø 1000	ml	20.40		
3		Cement mortar / Llustër çimento 1 cm 1:2	m ²	0.50		
4		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	8.00		

5		Cast in place concrete structure C30/37 (Wingwalls) / Struktura monolite betoni me çakëll C30/37 (Muret anesor)	m ³	3.00		
6		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	2.70		
7		Periodic steel rebars Ø 6-10 mm (for all parts) / F.V. hekur betoni periodik Ø 6-10 mm (per te gjitha pjeset)	ton	0.04		
8		Periodic steel rebars Ø > 12mm(for all parts) / F.V. hekur betoni periodik Ø > 12mm (per te gjitha pjeset)	ton	0.63		
Total PC-49 New RC Pipe culvert Ø 1000 KM 0+025,14 (Axis OP) - KM 0+025,63- (Axis R3)/ PC-49 Tombino e re rrethore betoni Ø 1000 KM 0+025,14 (Axis OP) - KM 0+025,63- (Axis R3)						
b. PC-50 New RC Pipe culvert Ø 1000 KM 0+182,53 (Axis OP) - KM 0+415,37 (Axis OP) / PC-50 Tombino e re rrethore betoni Ø 1000 KM 0+182,53 (Axis OP) - KM 0+415,37 (Axis OP)						
1		Refill with drainage material/ Mbushje me zhavor	m ³	9.00		
2		Concrete Pipe culvert Ø 1000 / Tombino rrethore Betoni Ø 1000	ml	22.70		
3		Cement mortar / Llustër çimento 1 cm 1:2	m ²	0.50		
4		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	9.00		
5		Cast in place concrete structure C30/37 (Wingwalls) / Struktura monolite betoni me çakëll C30/37 (Muret anesor)	m ³	13.00		
6		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	7.00		
7		Periodic steel rebars Ø 6-10 mm (for all parts) / F.V. hekur betoni periodik Ø 6-10 mm (per te gjitha pjeset)	ton	0.04		
8		Periodic steel rebars Ø > 12mm(for all parts) / F.V. hekur betoni periodik Ø > 12mm (per te gjitha pjeset)	ton	0.63		
Total PC-50 New RC Pipe culvert Ø 1000 KM 0+182,53 (Axis OP) - KM 0+415,37 (Axis OP) / PC-50 Tombino e re rrethore betoni Ø 1000 KM 0+182,53 (Axis OP) - KM 0+415,37 (Axis OP)						
c. PC-51 New RC Pipe culvert Ø 1000 KM 0+023,85 (Axis SR01) / PC-51 Tombino e re rrethore betoni Ø 1000 KM 0+023,85 (Axis SR01)						
1		Refill with drainage material/ Mbushje me zhavor	m ³	12.00		
2		Concrete Pipe culvert Ø 1000 / Tombino rrethore Betoni Ø 1000	ml	26.40		
3		Cement mortar / Llustër çimento 1 cm 1:2	m ²	0.60		

4		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	12.00		
5		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	17.00		
6		Periodic steel rebars Ø 6-10 mm (for all parts) / F.V. hekur betoni periodik Ø 6-10 mm (per te gjitha pjeset)	ton	0.04		
7		Periodic steel rebars Ø > 12mm(for all parts) / F.V. hekur betoni periodik Ø > 12mm (per te gjitha pjeset)	ton	0.63		
Total PC-51 New RC Pipe culvert Ø 1000 KM 0+023,85 (Axis SR01) / PC-51 Tombino rrethore ekzistuese Ø 1000 KM 0+023,85 (Axis SR01)						
d. BC20 New Box Culvert 3.00x1,50 KM 0+239,32 (Axis SR01) - KM 0+415,37 (Axis OP)/ BC20 / Tombino drejtkendore e re 3.00x1,50 KM 0+239,32 (Axis SR01) - KM 0+415,37 (Axis OP)						
1		Refill with drainage material/ Mbushje me zhavor	m ³	25.00		
2		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	25.00		
3		Cast in place concrete structure C30/37 (New box culvert) / Struktura monolite betoni me çakëll C30/37 (tombino e re)	m ³	90.00		
4		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	23.00		
5		Periodic steel rebars Ø 6-10 mm / F.V. hekur betoni periodik Ø 6-10 mm	ton	0.10		
6		Periodic steel rebars Ø > 12mm / F.V. hekur betoni periodik Ø > 12mm	ton	11.99		
7		Lean concrete C12/15 for Hidroinsulation Protection / Struktura monolite betoni C12/15 per mbrojtjen e shtreses Hidroizoluese	m ³	5.12		
8		Waterstop Type 2000 10*20 and hidroinsulation type rapid cement / F V waterstop tip RT 2000 10*20 & h/izolues tip rapid cement ne bashkimin e kampatave b/a.	ml	62.92		
9		Hidroinsulation / Hidroizolim me emulsion, 2 duar bitum	m ²	273.00		
Total BC20 New Box Culvert 3.00x1,50 KM 0+239,32 (Axis SR01) - KM 0+415,37 (Axis OP)/ BC20 / Tombino drejtkendore e re 3.00x1,50 KM 0+239,32 (Axis SR01) - KM 0+415,37 (Axis OP)						
e. BC21 New Box Culvert 3.00x1,50 KM 0+118,36 (Axis R2) / BC21 Tombino drejtkendore e re 3.00x1,50 KM 0+118,36 (Axis R2)						
1		Refill with drainage material/ Mbushje me zhavor	m ³	15.00		
2		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	15.00		
3		Cast in place concrete structure C30/37 (New box culvert) / Struktura monolite betoni me çakëll C30/37 (tombino e re)	m ³	48.00		
4		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	20.70		
5		Periodic steel rebars Ø 6-10 mm / F.V. hekur betoni periodik Ø 6-10 mm	ton	0.05		
6		Periodic steel rebars Ø > 12mm / F.V. hekur betoni periodik Ø > 12mm	ton	6.31		

7		Lean concrete C12/15 for Hidroinsulation Protection / Struktura monolite betoni C12/15 per mbrojtjen e shtreses Hidroizoluese	m ³	2.76		
8		Waterstop Type 2000 10*20 and hidroinsulation type rapid cement / F V waterstop tip RT 2000 10*20 & h/izolues tip rapid cement ne bashkimin e kampatave b/a.	ml	36.64		
9		Hidroinsulation / Hidroizolim me emulsion, 2 duar bitum	m ²	165.00		
Total BC21 New Box Culvert 3.00x1,50 KM 0+118,36 (Axis R2) / BC21 Tombino drejtkendore e re 3.00x1,50 KM 0+118,36 (Axis R2)						
f. Drainage System - Interchange No.1 Kashar / Sistemi i drenimit - Nyja ne Disnivel Nr.1 Kashar						
1		Prefabricated Concrete Tiled outlet and concrete tiled for discharge the platform water along the slope / Pllaka te parapregatitura betoni per shkarkimin e ujit te platformes neper skarpate	ml	246.00		
2		Concrete C25/30 for the side gutter / Beton I klases C25/30 per kanalin anesor	m3	255.00		
3		Concrete C25/30 for the concrete channel / Beton I klases C25/30 per kanalin e betonit	m3	2451.63		
4		Periodic steel rebars Ø 6-10 mm for the concrete channel/ F.V. hekur betoni periodik Ø 6-10 mm per kanalin e betonit	ton	41.44		
5		Periodic steel rebars Ø > 12mm for the concrete channel / F.V. hekur betoni periodik Ø > 12mm per kanalin	ton	63.31		
Total Drainage System - Interchange No.1 Kashar / Sistemi i drenimit - Nyja ne Disnivel Nr.1 Kashar						
Culvert and Drainage System / Tombinot dhe Sistemi I Drenimit ne Nyjen ne Disnivel Nr.1-Kashar/ SHUMA TOTALE A. 2(a+b+c+d+e+f)						
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
A3. Kashar Overpass / Ndertimi Mbikalimi I Kasharit						
1		Excavation for foundation to any depth in material other than rock including disposal / Germim per themelet ne terrene te zakonshme si dhe transportimin e materialit	m3	6480.00		
2		Filling with available excavated earth (excluding rock) in foundation, and plinth in layers not exceeding 30 cm in depth consolidating each deposited layer by ramming and watering etc. / Mbushje me materialet ekzistuese nga germimet e meparshme perfshire dhe ngjeshje me tokmak per thellesi jo me te medha se 30 cm	m3	2952.00		
3		Pile drilling with machinery Ø1200, 20~40m in sandy soil, / Shpim me sonda Ø1200 Ø1.2m,20~40m,toke ranore	m	1200.00		
4		Concrete C25/30 (with gravel) for piles / Beton me çakell C 25/30 F.V. Per pilotat	m3	1357.17		
5		Reinforcing steel B450 C for Pile / F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	203.58		
6		Lean concrete C12/15 included supply, cast in place / Beton i varfer C12/15 perfshire F.V	m3	169.12		
7		Concrete for foundation C25/30 included supply, cast in place and formwork / Beton I klases C25/30 per themelet pershire F.V	m3	903.95		
8		Reinforcing steel B450 C for foundation/ F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	90.40		
9		Concrete for levelling pads C32/40 included supply, cast in place and formwork / Beton C32/40 per jasteket e trareve perfshire F.V	m3	2.51		
10		Concrete for elevation C30/37 included supply, cast in place and formwork / Beton I klases C30/37 per trupin pershire F.V	m3	231.36		
11		Reinforcing steel B450 C for elevation/ F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	23.14		
12		STRUCTURAL STEEL SELF-PROTECTED TYPE S355J0W (UNI EN 10155) DOUBLE T - LIGHTS 40-70 M Supply and installation of steel structures self-protected type S355J0W (UNI EN 10155) for the execution of bridges or viaducts facilities, including assembly and launching. / CELIKU STRUKTUROR CORTEN TIPI S355J0W (UNI EN 10155) DOPIO T - HAP. DRITE 40-70 M perfshin F.V per realizimin e urave dhe viadukteve	Ton	308.97		

13		Bearing Devices, Elastomeric - for range vertical load 50 - 150 ton / Mbeshtetje elastomere per ngarkesa vertikale 50 deri 150 ton.	item	8.00		
14		Supply and placement of concrete pedalles C32/40 /F.V Solete predalles betoni C32/40	m2	1269.18		
15		Concrete structures / Struktura monolite betoni me çakell C 32/40	m3	314.42		
16		Reinforcing steel B450 C for elevation/ F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	50.31		
17		Expansion Joints greater than +/-50mm and less than +/-200mm / Bashkuese fuge zgjerimi/sizmike per jo me pak se +/-50mm dhe jo me shume se +/-200mm	m	23.50		
18		Waterproofing included supply and placemend / H / Izolim me emulsion, 3 K. Katr. .importi cilesia 1	m2	951.89		
19		Parapet included supply and placemend protection net with zinc coated wire mesh + zinc coated panel H=2m (deck) / Parapeti perfshi edhe F.V, rrjetë mbrojtëse celiku me rrjetë teli+panel të zinkuar H=2m (te mbistruktura)	m	192.30		
20		Supply and placement of galvanized sheet (on the deck every 10m) / Kasete shkarkimi me llamarine xingat (çdo 10m, në soletë)	Piece/ copë	12.00		
21		Supply and placement of vertical galvanized pipe Ø 125 mm (at every outlet)/ F.V Ulluk shkarkimi vertikal me llamarine xingat Ø 125 (ne çdo kasete shkarkimi)	ml	12.00		
22		Supply and placement of pvc pipe Ø200mm / Tub kanalizimi pvc Ø200mm	ml	232.30		
23		Supply and placement of canalization pvc tube with support of zinced pannel / F.V Tub kanalizimi pvc Ø 110 me suport llamarin xingat	ml	232.30		
24		Decorative pexiglass / Panele dekorative prej pexiglass	m2	673.05		
Kashar Overpass / Mbikalimi I Kasharit/ Shuma A3						
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
A 4. Interchange No.1 Kashar / Ndertimi Nyje ne Disnivel Nr.1 Kashar						
		a.Earth work / Punime germim mbushje				
1		Excavation of fractured rock with excavator 0.5 m³, in water presence , + load on vehicle (Excavation other than topsoil in all classes of soil including the excavation for Free drained granular fill) / Germim shkambi i coptuar me ekskavator 0.5 m³, shkemb, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet (per te gjitha rastet pervecse tokes vegjetale perfshire germimin per Bonifikim)	m³	26511.88		
2		Excavation of fractured rock with excavator 0,5 m³, in water presence , + load on vehicle (Demolition of existing ramps) / Germim shkambi i coptuar me ekskavator 0,5 m³, shkemb, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet (Prishje te rampave ekzistuese)	m³	5082.00		
3		Excavation with excavator 0.25 m³, common soil, category III, + load on vehicle (Clearing and Grubbing of first 20 cm) / Germim dheu me ekskavator goma 0.25 m³, ne kanale gjeresi deri 2 m, toke zak, kategoria III, me shk ne toke (Heqje e shtreses vegjetative - 20 cm e para)	m³	3587.23		
4		Transport of Soil up to 5 km (Total excavated material) / Transport dheu me auto deri 5.0 km (Transport I Germimit Total)	m³	35181.11		
5		Geotextil layer 500 g/m2 / Gjeotekstil me gramature 500 g/m2	m²	21813.73		
6		Transport up to 5 km (Transport of Milling of existing asphalt layer in the site yard of Lot 1 - The procedure of milling is included in the price of Cemented base course of the Motorway) / Transport me auto deri 5.0 km (Transporti I shtresave te frezuara (ricikluara) ekzistuese ne Kantierin e Lotit 1- Procedura e frezimit (riciklimit) eshte e perfshire ne cmimin e Stabilizantit te trajtuar me cimento te Autostrades)	m³	1096.05		

7		Filling with excavated rock (Embankement) / Mbushje me shkemb te germuar me pare	m ³	31960.49		
Total Earth work / Punime germim mbushje Total pjesor (a)						
b.Pavement layers / Shtresat rrugore						
8		Asphalt wearing course 4 cm / Asfalt 4 cm	m ²	9694.46		
9		Asphalt binder course 5 cm / Shtrese Binder 5cm	m ²	9694.46		
10		Asphalt base course 10 cm / Konglomerat bituminoz 10 cm	m ²	9446.61		
11		Cemented base course 25 cm / Stabilizant i trajtuar me cimento 25 cm	m ³	2439.05		
12		Granular sub-base course 30 cm / Shtrese cakelli mbeturine kave t=30 cm	m ²	9915.32		
13		Vegetation Layer / Mbjellje bari ne skarpat	m2	11134.68		
14		Free drained granular fill / Ndertim drenazhi mbushje me zhavor te prodh mak (Bonifikim)	m3	7272.90		
Total Pavement layers / Shtresat rrugore, Total pjesor (b)						
c. Driven Piles and Cap Piles - Acoustic Barrier AB 02 / Pilotat dhe jasteket e pilotave - Barrier Akustike AB 02						
1		Drilling in normal soil φ 600 mm (ml) / Sondim ne toke normale φ 600 mm (ml)	ml	150.00		
2		Concrete structures C 30/37 for the piles / Struktura monolite betoni C 30/37 per pilotat	m3	42.39		
3		Steel bars Ø B500, Ø 6-10 mm mm for piles / F V hekur betoni Ø 6-10 mm per pilotat	ton	0.75		
4		Steel bars Ø B500, Ø > 12mm mm for piles / F V hekur betoni Ø > 12mm per pilotat	ton	4.00		
5		Excavation with excavator 0.25 m ³ , common soil, category III, + auto transport to the place appointed to the commune / Gërmim dheu me ekskavator me goma 0.25 m3, tokë zak, kategoria III, me shk. në mjet.	m3	11.20		
6		Transport of excavated material / Transport dheu me auto ±3km	m3	53.59		
7		Concrete structures C 30/37 for cap pile / Struktura monolite betoni C 30/37 per jastekun e pilotes	m3	11.20		
8		Steel bars Ø B500, Ø > 12mm mm for cap piles / F V hekur betoni Ø > 12mm per jastekun e pilotave	ton	1.25		
9		Concrete structures C 12/15 / Struktura monolite betoni C 12/15	m3	0.90		
Total Driven Piles and Cap Piles - Acoustic Barrier AB 02 / Pilotat dhe jasteket e pilotave - Barrier Akustike AB 02- themelet / Total pjesor (c)						
Driven Piles and Cap Piles - Acoustic Barrier AB03 / Pilotat dhe jasteket e pilotave - Barrier Akustike AB 03						
1		Drilling in normal soil φ 600 mm (ml) / Sondim ne toke normale φ 600 mm (ml)	ml	330.00		
2		Concrete structures C 30/37 for the piles / Struktura monolite betoni C 30/37 per pilotat	m3	93.26		
3		Steel bars Ø B500, Ø 6-10 mm mm for piles / F V hekur betoni Ø 6-10 mm per pilotat	ton	1.65		
4		Steel bars Ø B500, Ø > 12mm mm for piles / F V hekur betoni Ø > 12mm per pilotat	ton	8.80		
5		Excavation with excavator 0.25 m ³ , common soil, category III, + auto transport to the place appointed to the commune / Gërmim dheu me ekskavator me goma 0.25 m3, tokë zak, kategoria III, me shk. në mjet.	m3	24.64		
6		Transport of excavated material / Transport dheu me auto ±3km	m3	117.90		

7		Concrete structures C 30/37 for cap pile / Struktura monolite betoni C 30/37 per jastekun e pilotes	m3	24.64		
8		Steel bars Ø B500, Ø > 12mm mm for cap piles / F V hekur betoni Ø > 12mm per jastekun e pilotave	ton	2.75		
9		Concrete structures C 12/15 / Struktura monolite betoni C 12/15	m3	1.98		
Total Driven Piles and Cap Piles - Acoustic Barrier AB03 / shuma Pilotat dhe jasteket e pilotave - Barrier Akustike AB 03-themelet / Total pjesor (d)						
Total - Interchange No.1 Kashar / Ndertimi Nyje ne Disnivel Nr.1 Kashar/Shuma A.4 (a+b+c+d)						
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
<u>A5. Main Secondary Road No.3 - Kashar Interchange / Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit</u>						
a. Earth work / Punime germim mbushje						
1		Excavation of fractured rock with excavator 0.5 m³, in water presence , + load on vehicle / Germim shkembi i coptuar me ekskavator 0.5 m³, shkembi, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet	m³	10178.74		
2		Transport of Soil up to 5 km (Total excavated material) / Transport dheu me auto deri 5.0 km (Transport I Germimit Total)	m³	10178.74		
3		Filling with excavated rock (Embankement) / Mbushje me shkembi te germuar me pare	m³	41.50		
4		Vegetation Layer (20 cm) / Mbjellje bari ne skarpat (20 cm)	m²	112.00		
5		Milling of existing asphalt layer / Skarifikim shtresash asfalti ekzistues	m²	2803.00		
in Secondary Road No.3 - Kashar Interchange / Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit/Subtotal/Total pjesor(a)						
b.Pavement layers / Shtresat rrugore						
6		Asphalt wearing course 4 cm / Asfalt 4 cm	m²	2803.00		
7		Asphalt binder course 5 cm / Shtrese Binder me granil gur kave 5 cm me makineri	m²	2803.00		
8		Asphalt base course 15 cm / Shtrese Konglomerati 15 cm	m²	2826.68		
9		Cemented base course 25 cm / Stabilizant i trajtuar me cemento 25 cm	m³	713.32		
10		Granular sub-base course 20 cm / Shtrese cakelli mbeturine kave t=20 cm	m²	2882.92		
in Secondary Road No.3 - Kashar Interchange / Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit/Subtotal/Total pjesor(b)						
<u>c. Sheet Pile Wall RW 03 L= 30 m (Main Secondary Road No.3 - Kashar Interchange in Km 0+188.60) / Perde me Pilota RW 03 L= 30 m (Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit Km ne 0+188.60)</u>						
1		Excavation of rock with excavator 0.5 m³, in water presence , + load on vehicle / Germim shkembi i coptuar me ekskavator 0.5 m³, shkembi, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet	m³	30.00		
2		Drilling in normal soil Ø 800 mm (ml) / Sondim ne toke normale Ø 800 mm (ml)	ml	348.00		
3		Transport of excavated material / Transport dheu me auto ÷3km	m³	204.84		
4		Steel bars Ø B500, Ø 6-10 mm mm for piles and for the beam / F V hekur betoni Ø 6-10 mm per pilotat dhe per traun	ton	0.62		
5		Steel bars Ø B500, Ø > 12mm mm for piles and for the beam / F V hekur betoni periodik, Ç - 5, Ø > 12mm per pilotat dhe per traun	ton	23.10		
6		Concrete structures C 30/37 for the beam piles / Struktura monolite betoni C 30/37 per traun ne koke te pilotave	m³	30.00		
7		Concrete structures C 30/37 for the piles / Struktura monolite betoni C 30/37 per pilotat	m³	174.84		

Total Sheet Pile Wall RW 03 L= 30 m (Main Secondary Road No.3 - Kashar Interchange in Km 0+188.60) / Perde me Pilota RW 03 L= 30 m (Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit Km ne 0+188.60)							Total pjesor(c)
d. Concrete Retaining walls - RW 04 L=10 m (Main Secondary Road No.3 - Kashar Interchange) / Mur Mbajtes Betoni - RW04 L=10 m (Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit)							
1		Excavation of rock with excavator 0.5 m³, in water presence , + load on vehicle / Germim shkemb i coptuar me ekskavator 0.5 m³, shkemb, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet	m³	75.00			
2		Transport of excavated material / Transport dheu me auto ÷3km	m³	75.00			
3		Steel bars Ø B500, Ø 6-10 mm mm for piles / F V hekur betoni Ø 6-10 mm per pilotat	ton	0.03			
4		Steel bars Ø B500, Ø > 12mm mm / F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	1.32			
5		Concrete structures C 30/37 / Struktura monolite betoni C 30/37	m³	17.20			
6		Concrete structures C 12/15 / Struktura monolite betoni C 12/15	m³	5.20			
Total Concrete Retaining walls - RW 04 L=10 m (Main Secondary Road No.3 - Kashar Interchange) / Mur Mbajtes Betoni - RW04 L=10 m (Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit)Total pjesor(d)							
Main Secondary Road No.3 - Kashar Interchange / Rruga Sekondare Kryesore Nr.3 - Nyja ne Disnivel e Kasharit							Shuma A5 (a+b+c+d)
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)	
		A6. Traffic Signs, Road Markings and Safety on Interchange No.1-Kashar ,Main Secondary Road 3 / Sinjalizimet dhe Siguria Rrugore ne nyjen ne Disnivel Nr.1-Kashar&Main Secondary Road 3					
1 Traffic Signs, Road Markings and Safety on Interchange No.1-Kashar / Sinjalizimet dhe Siguria Rrugore ne nyjen ne Disnivel Nr.1-Kashar							
1		Sides Guardrails tipe H2 with 3 waves in one side W4+accessories / Guardrail H2 anesore me 3 valz. ne nje ane W4+aksesoret	ml	1059.25			
2		Sides Guardrails tipe H3 with 3 waves in one side W5+accessories / Guardrail H3 anesore me 3 valz. ne nje ane W5(elementi+lart)+aksesoret	ml	436.63			
3		Sides Guardrails tipe H3 for bridge with 3 waves in one side W5+accessories / Guardrail H3 anesore per ure me 3 valz. ne nje ane W5(elementi+lart)+aksesoret (gjatesor lidhes)	ml	27.00			
4		Sides Guardrails tipe H4 with 3 waves in one side for bridge W5+accessories / Guardrail H4 anesore per ure me 3 valz. ne nje ane W5(elementi+lart)+aksesoret (gjatesor lidhes)	ml	36.00			
5		Crush Cushion Class 50 / Amortizator goditje Klasa 50	pcs/cop e	2.00			
6		Crush Cushion Class 100 / Amortizator goditje Klasa 100	pcs/cop e	1.00			
7		Acoustic Barriers / Barrierat Akustike	m²	1420.00			
8		Circular Sign D=90 cm A1 - C12/Tabele rrethore D=90 cm A1 - C1 2	pcs/cop e	12.00			
9		Triangular Sign A=120 cm A1-C12/Tabele trekendore A=120 cm A1-C12	pcs/cop e	6.00			
10		Square Sign 90x90 cm A1-C11/Tabele katrore 90x90 cm A1-C11	pcs/cop e	2.00			
11		Rectangular sign 100x150 cm A1-C11/Tabele drejtkendore 100x150 cm A1-C11	pcs/cop e	2.00			
12		Arrow Sign 300x70 cm A1-C12/Tabele shigjete 300x70 cm A1-C12	pcs/cop e	4.00			
13		Arrow Sign 150x40 cm A1-C12/Tabele shigjete 150x40 cm A1-C12	pcs/cop e	2.00			
14		Informative panel 300x225 cm A1-C12/Panel informativ 300x225 cm A1-C12	pcs/cop e	1.00			
15		Additional rectangular panel 90x30 cm A1-C11 for square and rectangular sign/Panel shtese 90x30 cm A1-C11 per tabelat katrore dhe drejtkendore	pcs/cop e	4.00			

16		Additional rectangular panel 105x35 cm Al-C12 for triangular sign/Panel shtese 105x35 cm Al-C12 per tabelat trekendore	pcs/cop e	4.00		
17		White thermoplastic road marking continues line width 15 cm/Vijezim termoplastik i bardh i vazhduar me gjeresi 15 cm	m2	375.20		
18		White bicomponent paint for traffic islands and other road markings/Vijezim bikomponent i bardh per ishuj trafiku dhe shenja te tjera rrugore	m2	218.20		
Traffic Signs, Road Markings and Safety on Main Road Tirane - Durres and Interchange No.1-Kashar / Sinjalizimet dhe Siguria Rrugore ne nyjen ne Disnivel Nr.1-Kashar/ Total pjesor(1)						
		2. Traffic Signs Main Secondary Road 3-Kashar Interchange / Sinjalizimet Rruga Sekondare Kryesore 3- Nyja ne disnivel e Kasharit				
1		Triangular Sign A=90 cm Al-C11/Tabele trekendore A=190 cm Al-C11	pcs/cop e	3.00		
2		Circular Sign D=60 cm Al - C11/Tabele rrethore D=60 cm Al - C11	pcs/cop e	4.00		
3		Chevron alignment sign / Pervijues modular te kthesave	pcs/cop e	7.00		
4		White thermoplastic road marking continues line width 15 cm/Vijezim termoplastik i bardh i vazhduar me gjeresi 15 cm	ml	990.00		
		Total Main Secondary Road 3-Kashar Interchange / Rruga Sekondare Kryesore 3- Nyja ne disnivel e Kasharit /Total pjesor (2)				
Bill 10: Traffic Signs, Road Markings and Safety on Interchange No.1-Kashar ,Main Secondary Road 3-Kashar Interchange / Sinjalizimet e Siguria Rrugore nyjen ne Disnivel Nr.1-Kashar ne Rruget Sekondare Kryesore3 /SHUMA A.6 (1+2)						
Interchange No.1-Kashar, Main Secondary Road 3, TOTAL (A) / Mbikalimi Kashar , Nyja ne Disnivel Nr.1 Kashar dhe Rruga sekondare kryesore N0.3 /SHUMA A (A1+A2+A3+A4+A5+A6)						
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
B. PUNIME NDERTIMORE NE RRUGEN KRYESORE TIRANE DURRES KM 6 +00 -7+ 050						
B.1- Earthworks, Demolition of existing Structures, and Reallocation of Utilities / Punime mbushje germim, Punimet e prishjes se strukturave ekzistuese dhe Rialokimi I Linjave ekzistuese Inxhinierike.						
1. Earthworks of Main Road Tirane Durres / Punime Mbushje - Germim te Rruget Kryesore Tirane Durres						
1		Excavation with excavator 0.25 m³, common soil, category III, + load on vehicle (Clearing and Grubbing of first 20 cm) / Germim dheu me ekskavator goma 0.25 m³, ne kanale gjeresi deri 2 m, toke zak, kategoria III, me shk ne toke (per te gjitha rastet pervecse tokes vegjetale perfshire germimin per Bonifikim)	m3	24558.30		
2		Excavation with excavator 0.25 m³, common soil, category III, + load on vehicle (Clearing and Grubbing of first 20 cm) / Germim dheu me ekskavator goma 0.25 m³, ne kanale gjeresi deri 2 m, toke zak, kategoria III, me shk ne toke (Prishje te shtresave ekzistuese pervec shtresave te asfaltit)	m3	2347.13		
3		Excavation with excavator 0.25 m³, common soil, category III, + load on vehicle (Clearing and Grubbing of first 20 cm) / Germim dheu me ekskavator goma 0.25 m³, ne kanale gjeresi deri 2 m, toke zak, kategoria III, me shk ne toke (Heqje e shtreses vegjetative - 20 cm e para)	m3	5196.60		
4		Transport of Soil up to 5 km (Total excavated material) / Transport dheu me auto deri 5.0 km (Transport I Germimit Total)	m3	32102.03		
5		Filling with excavated rock (Embankement) / Mbushje me shkemb te germuar me pare	m3	5571.00		

6		Transport up to 5 km (Transport of Milling of existing asphalt layer in the site yard of Lot 1 - The procedure of milling is included in the price of Cemented base course of the Motorway) / Transport me auto deri 5.0 km (Transporti i shtresave te frezuara (ricikluara) ekzistuese ne Kantierin e Lotit 1- Procedura e frezimit (riciklimit) eshte e perfshire ne cmimin e Stabilizantit te trajtuar me cemento te Autostrades)	m3	1760.34		
7		Vegetation Layer (20 cm) / Mbjellje bari ne skarpat (20 cm)	m2	1390.63		
8		Free drained granular fill / Ndertim drenazhi mbushje me zhavor te prodh mak (Bonifikim)	m3	21087.00		
9		Geotextil layer with specific weight 500g/m2 / Gjeotekstil me gramature 500 g/m2	m2	24039.18		
SUB Total(1) Earthworks of Main Road Tirane Durres / Punime Mbushje - Germim te Rruges Kryesore Tirane Durres						
2. Demolition of existing Concrete Structures - Punimet e prishjes se strukturave ekzistuese te betonit						
		Demolition of existing Minor Structures - Punimet e prishjes se strukturave minore ekzistuese				
1		Excavation with excavator 0.25 m³, common soil, category III, + auto transport to the place appointed to the commune (for the extension of the existing box and pipes and for the new pipes in the existing road body)/ Gërmim dhe me ekskavator me goma 0.25 m3, tokë zak, kategoria III, me shk. në mjet.per zgjatimin e tombinove rrethore dhe drejtkendore si dhe per tombinot e reja ne trupin e rruges ekzistuese)	m3	1740.00		
2		Transport of Soil up to 5 km / Transport dhe me auto deri 5.0 km	m3	1740.00		
3		Demolition of existing concrete structures (existing box and pipes in the existing road body) /Prishje struktura prej betoni (per heqjen e tombinove rrethore dhe drejtkendore ne trupin e rruges ekzistuese)	m3	40.00		
SubTotal (2) Demolition of existing Minor Structures - Punimet e prishjes se strukturave minore ekzistuese						
3. Demolition(Removal)of existing Structures and Reallocation of Utilities - Punimet e Prishjes(Heqjes) se strukturave ekzistuese dhe Rialokimi i Linjave ekzistuese Inxhinierike.						
1		Reallocations of existing Albtelecom Optic Fiber Cable / Rialokimi i Linjave ekzistuese te Fibrave Optike te Albtelekomit	km	1.00		ALL 0.00
2		Reallocations of existing ATU Optic Fiber Cable / Rialokimi i Linjave ekzistuese te Fibrave Optike te ATU-se	km	1.00		
3		Removal of Vertical Signs including transport and stockage in the site yard of Lot 1 / Heqje e tabelave vertikale perfshire trasportin dhe vendosjen ne kantierin e Lotit 1	pcs	15.00		
4		Removal of existing pile lighting (in the side of the road)) with stockage in the site yard of Lot 1 / Heqja e shtyllave ekzistuese te ndricimit (anes rruges) me depozitim ne kantierin e Lotit 1	pcs	22.00		
5		Reallocations of existing underground 20kV lines / Rialokimi i Linjave ekzistuese nentokesore 20kV	ml	1009.40		
Sub Total (3) Demolition(Removal)of existing Structures and Reallocation of Utilities - Punimet e Prishjes(Heqjes) se strukturave ekzistuese dhe Rialokimi i Linjave ekzistuese Inxhinierike.						
Total B1(1+2+3) : Earthworks, Demolition of existing Structures, and Reallocation of Utilities / Punime mbushje germim, Punimet e prishjes se strukturave ekzistuese dhe Rialokimi i Linjave ekzistuese Inxhinierike. Shuma B1(1+2+3)						
No. / Nr.	An	Item description / Pershkrimi i punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
B.2 - Bill n° 2: Pavement layers / Shtresat rrugore						
1		Open graded asphalt surface 4 cm / Asfalt drenant 4 cm	m2	35184.38		
2		Asphalt binder course 5 cm / Shtrese Binder me granil gur kave 5 cm me makineri	m2	35282.50		
3		Asphalt base course 20 cm / Shtrese Konglomerati 20 cm	m2	35304.38		
4		Base course 15 cm under traffic separator / Shtrese stabilizanti 15 cm (Shtrese baze nen trafik ndares)	m2	2520.50		

5		Cemented base course (25 cm) with 37 % of Agregates (see Pavement report) from the Milling of existing Asphalt layers (RAP) - this price include and the procedure of milling of the existing layers and pavement of the cemented base course / Stabilizant i trajtuar me cemento (25 cm) me 37 % te agregateve (referojuni raportit te shtresave) te perfuar nga frezimi - riciklimi i shtresave ekzistuese te asfaltit (RAE) - Ky cmim perfshin dhe proceduren e frezimit (riciklimit) dhe te shtrimit te shtresave te Stabilizantit te trajtuar me cemento.	m2	35272.50		
6		Granular sub-base course 30 cm / Shtrese cakelli mbeturine kave t=30 cm	m2	35618.33		
Total Bill n° 2: Pavement layers / Shtresat rrugore (Shuma B.2)						
No. / Nr.	An	Item description / Pershkrimi i punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
B.3 - Bill n°3 : Pipe Culverts and Drainage System / Tombinot dhe Sistemi i Drenimit						
B.3.1.Hydraulic Pipe Culverts of Main Road Tirane - Durres / Tombinot Hidraulike ne Rruget Kryesore Tirane - Durres						
BC-8a New Box culvert 3.00x1.50 KM 6+169.79 / BC-8a Tombino drejtkendore e re 3.00x1.50 KM 6+169.79						
1		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	40.50		
2		Cast in place concrete structure C30/37 (New box culvert) / Struktura monolite betoni me çakëll C30/37 (tombino e re)	m ³	141.00		
3		Cast in place concrete structure C30/37 (Wingwalls) / Struktura monolite betoni me çakëll C30/37 (Muret anesor)	m ³	1.60		
4		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	6.30		
5		Periodic steel rebars Ø 6-10 mm (for all parts) / F.V. hekur betoni periodik Ø 6-10 mm (per te gjitha pjeset)	ton	0.20		
6		Periodic steel rebars Ø > 12mm(for all parts) / F.V. hekur betoni periodik Ø > 12mm (per te gjitha pjeset)	ton	19.85		
7		Lean concrete C12/15 for Hidroinsulation Protection / Struktura monolite betoni C12/15 per mbrojtjen e shtreses Hidroizoluese	m ³	8.28		
8		Waterstop Type 2000 10*20 and hidroinsulation type rapid cement / F V waterstop tip RT 2000 10*20 & h/izolues tip rapid cement ne bashkimin e kampatave b/a.	ml	98.00		
9		Hidroinsulation / Hidroizolim me emulsion, 2 duar bitum	m ²	362.02		
Total BC-8a New Box culvert 3.00x1.50 KM 6+169.79 / BC-8a Tombino drejtkendore e re 3.00x1.50 KM 6+169.79						
PC-3a New Pipe culvert Ø 1400 KM 6+626.97 / PC-3a Tombino rrethore e re Ø 1400 KM 6+626.97						
1		Metallic Pipe Culvert / Tombino metalike	kg	4373.80		
2		Rip Rap/Mbushje me gure te thyer ne hyrje/dalje	m ³	2.10		
3		Lean concrete C12/15 / Struktura monolite betoni C12/15	m ³	2.10		
4		Cast in place concrete structure C30/37 (New pipe culvert) / Struktura monolite betoni me çakëll C30/37 (tombino e re)	m ³	46.53		
5		Sand Layer / Shtrese Rere	m ³	15.00		
6		Cast in place concrete structure C30/37 (Manholes) / Struktura monolite betoni me çakëll C30/37 (Pusetat)	m ³	6.40		
7		Periodic steel rebars Ø 6-10 mm / F.V. hekur betoni periodik Ø 6-10 mm	ton	0.02		
8		Periodic steel rebars Ø > 12mm / F.V. hekur betoni periodik Ø > 12mm	ton	0.25		
Total PC-3a New Pipe culvert Ø 1400 KM 6+626.97 / PC-3a Tombino rrethore e re Ø 1400 KM 6+626.97						
Total Sum of Hydraulic Pipe Culverts of Main Road Tirane - Durres / Tombinot Hidraulike ne Rruget Kryesore Tirane - Durres / (Shuma B.3. 1)						
B.3.2. Drainage System of Main Road Tirane - Durres / Sistemi i drenimit i Rruget Kryesore Tirane - Durres						
(a).Drainage System - Both Sides / Sistemi i drenimit - Te dyja anet						
1		Concrete structures C 12/15 / Struktura monolite betoni C 12/15(Calculations for the Pipes that passing transversely the Motorway / Volume per Tubat qe kalojne terthorasi Autostraden)	m ³	0.26		
2		Cemented base course 25 cm / Stabilizant i trajtuar me cemento 25 cm (Calculations for the Pipes that passing transversely the Motorway / Volume per Tubat qe kalojne terthorasi Autostraden)	m ³	24.43		

3		Concrete C25/30 / Beton I klases C25/30(Calculations for the Pipes that passing transversely the Motorway / Volume per Tubat qe kalojne terthorasi Autostraden)	m3	2.61		
4		Grated Concrete Gutter (grated channel between lanes) / Kanal Betoni me Grile (midis korsive)	ml	388.88		
Sub Total Drainage System - Both Sides / Sistemi i drenimit - Te dyja anet						
(b)Drainage System - Left Side Directions Tirane Durres / Sistemi i drenimit - Ana e majte drejtimi Tirane Durres						
1		Corrugated pipe SN 8 DN 315 mm / Tub HDPE i brinjuar SN 8 Dj 315 mm	ml	37.37		
2		Corrugated pipe SN 8 DN 400 mm / Tub HDPE i brinjuar SN 8 Dj 400 mm	ml	4.24		
3		Corrugated pipe SN 8 DN 500 mm / Tub HDPE i brinjuar SN 8 Dj 500 mm	ml	78.59		
4		Inspection manhole 1x1x1.5m(in the inner shoulder) / Puseta kontrolli 1x1x1.5m (ne bankinen e brendshme)	pcs	1.00		
5		Inspection manhole 1x1x1.5m(in the side of motorway) / Puseta kontrolli 1x1x1.5m (ne ane te autostrades)	pcs	2.00		
6		Prefabricated Concrete Tiled outlet and concrete tiled for discharge the platform water along the slope / Pllaka te parapregatitura betoni per shkarkimin e ujit te platformes neper skarpate	ml	121.00		
7		Concrete structures C 12/15 / Struktura monolite betoni C 12/15(Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE ne bankinen e brendeshme)	m3	6.03		
8		Backfill with granular material / Mbushje me material te granular (Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE ne bankinen e brendeshme)	m3	51.26		
9		HDPE Pipe Ø160 / Tub HDPE Ø160 (Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE Ø160 ne bankinen e brendeshme)	ml	3.00		
10		Concrete C25/30 for the side gutter / Beton I klases C25/30 per kuneten anesore	m3	67.94		
11		Grate Cover of concrete chanel / Kapak ne forem zgare mbi kanal in e betonit	ml	177.00		
12		Concrete C25/30 for the concrete channel Type 1 / Beton I klases C25/30 per kanal in e betonit Tipi 1	m3	216.45		
13		Concrete C25/30 for the concrete channel Type 3 / Beton I klases C25/30 per kanal in e betonit Tipi 3	m3	1463.00		
14		Periodic steel rebars Ø 6-10 mm for the concrete channel Type 3 / F.V. hekur betoni periodik Ø 6-10 mm per kanal in e betonit Tipi 3	ton	26.33		
15		Periodic steel rebars Ø > 12mm for the concrete channel Type 3 / F.V. hekur betoni periodik Ø > 12mm per kanal in e betonit Tipi 3	ton	105.34		
Sub Total b Sum of Drainage System - Left Side Directions Tirane Durres / Shuma (b)Sistemi i drenimit - Ana e majte drejtimi Tirane						
(c)Drainage System - Right Side Directions Tirane Durres / Sistemi i drenimit - Ana e djathte drejtimi Tirane Durres						
1		Corrugated pipe SN 8 DN 315 mm / Tub HDPE i brinjuar SN 8 Dj 315 mm	ml	42.32		
2		Corrugated pipe SN 8 DN 400 mm / Tub HDPE i brinjuar SN 8 Dj 400 mm	ml	95.76		
3		Corrugated pipe SN 8 DN 500 mm / Tub HDPE i brinjuar SN 8 Dj 500 mm	ml	134.65		
4		Corrugated pipe SN 8 DN 630 mm / Tub HDPE i brinjuar SN 8 Dj 630 mm	ml	69.49		
5		Inspection manhole 1x1x1.5m(in the inner shoulder) / Puseta kontrolli 1x1x1.5m (ne bankinen e brendshme)	pcs	6.00		
6		Inspection manhole 1x1x1.5m(in the side of motorway) / Puseta kontrolli 1x1x1.5m (ne ane te autostrades)	pcs	1.00		
7		Prefabricated Concrete Tiled outlet and concrete tiled for discharge the platform water along the slope / Pllaka te parapregatitura betoni per shkarkimin e ujit te platformes neper skarpate	ml	257.88		
8		Concrete structures C 12/15 / Struktura monolite betoni C 12/15(Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE ne bankinen e brendeshme)	m3	42.19		
9		Backfill with granular material / Mbushje me material te granular (Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE ne bankinen e brendeshme)	m3	375.78		
10		HDPE Pipe Ø160 / Tub HDPE Ø160 (Calculations for the Drainage HDPE Pipes in the inner shoulder / Volume per Tubat e Drenimit HDPE Ø160 ne bankinen e brendeshme)	ml	14.59		
11		Grated Concrete Gutter (Motorway sides) / Kanal Betoni me Grile (Anes autostrades)	ml	140.91		
12		Concrete C25/30 for the side gutter / Beton I klases C25/30 per kuneten anesore	m3	22.06		
13		Grate Cover of concrete chanel / Kapak ne forem zgare mbi kanal in e betonit	ml	170.00		

14		Concrete C25/30 for the concrete channel Type 1 / Beton I klases C25/30 per kanalin e betonit Tipi 1	m3	1053.00		
15		Concrete C25/30 for the concrete channel Type 3 / Beton I klases C25/30 per kanalin e betonit Tipi 3	m3	465.50		
16		Periodic steel rebars Ø 6-10 mm for the concrete channel Type 1 / F.V. hekur betoni periodik Ø 6-10 mm per kanalin e betonit Tipi 1	ton	18.95		
17		Periodic steel rebars Ø > 12mm for the concrete channel Type 1 / F.V. hekur betoni periodik Ø > 12mm per kanalin e betonit Tipi 1	ton	75.82		
18		Periodic steel rebars Ø 6-10 mm for the concrete channel Type 3 / F.V. hekur betoni periodik Ø 6-10 mm per kanalin e betonit Tipi 3	ton	8.38		
19		Periodic steel rebars Ø > 12mm for the concrete channel Type 3 / F.V. hekur betoni periodik Ø > 12mm per kanalin e betonit Tipi 3	ton	33.52		
Sub Total (c)Drainage System - Right Side Directions Tirane Durres / Shuma (d)Sistemi i drenimit - Ana e djathte drejtimi Tirane Durres						
Total (a+b+c) Culvert and Drainage System / Tombinot dhe Sistemi I Drenimit/				SHUMA B.3.2(a+b+c)		
Total (a+b+c) Culvert and Drainage System / Tombinot dhe Sistemi I Drenimit/				SHUMA B.3(3.1+3.2)		
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)
	B.4.1 : Pedestrian Flyovers and Underpasses / UN 1- Limuth Underpass KM 7+032.8 / UN 1- Nënkalimi I Limuthit KM 7+032.8					
1		Excavation for foundation to any depth in material other than rock including disposal / Germim per themelet ne terrene te zakonshme si dhe transportimin e materialit	m3	90.94		
2		Filling with available excavated earth (excluding rock) in foundation, and plinth in layers not exceeding 30 cm in depth consolidating each deposited layer by ramming and watering etc. / Mbushje me materialet ekzistuese nga germimet e meparshme perfshire dhe ngjeshje me tokmak per thelesi jo me te medha se 30 cm	m3	629.55		
3		Demolition of concrete structures / Prishje strukture betoni	m3	321.77		
4		Lean concrete C12/15 included supply, cast in place / Beton i varfer C12/15 perfshire F.V	m3	9.52		
5		Concrete for foundation C25/30 included supply, cast in place and formwork / Beton I klases C25/30 per themelet pershire F.V	m3	232.24		
6		Concrete for elevation C30/37 included supply, cast in place and formwork / Beton I klases C30/37 per trupin pershire F.V	m3	57.84		
7		Reinforcing steel B450 C for foundation/ F V hekur betoni periodik, Ç - 5, Ø > 12mm	ton	30.85		
8		Corrugated culvert Tubosider / Tombino me llamarine te valezuar tip "Tubosider"	kg	12982.72		
Pedestrian Flyovers and UnderpassesUN 1- Limuth Underpass KM 7+032.8 / UN 1- Nënkalimi I Limuthit KM 7+032.8/ Shuma B.4.1						
B.4.2 Main Secondary Road No.4 - KM 7+032.8 / Rruga Sekondare Kryesore Nr.4 - KM 7+032.8						
		a. Earth work / Punime germim mbushje				
1		Excavation of fractured rock with excavator 0.5 m³, in water presence , + load on vehicle / Germim shkemb i coptuar me ekskavator 0.5 m³, shkemb, prani uji ~2m, themele gjeresi ~2 m, me shkarkim ne mjet	m³	744.52		
2		Transport of Soil up to 5 km (Total excavated material) / Transport dheu me auto deri 5.0 km (Transport I Germimit Total)	m³	744.52		
3		Milling of existing asphalt layer / Skarifikim shtresash asfalti ekzistues	m²	670.00		
		Subtotal/Total				
		piesor (a)				
		b. Pavement layers / Shtresat rrugore				
4		Asphalt wearing course 4 cm / Asfalt 4 cm	m2	670.00		
5		Asphalt binder course 5 cm / Shtrese Binder me granil gur kave 5 cm me makineri	m2	670.00		
6		Asphalt base course 15 cm / Shtrese Konglomerati 15 cm	m2	394.00		
7		Cemented base course 25 cm / Stabilizant i trajtuar me cemento 25 cm	m3	98.50		
8		Granular sub-base course 20 cm / Shtrese cakelli mbeturine kave t=20 cm	m2	394.00		
				Subtotal/Total pjesor(b)		
		c. Footpath / Trotuar				

9		Concrete side walk without curb / Trotuar me lluster cemento pa bordure betoni	m2	200.00			
Subtotal/Total pjesor (c)							
Main Secondary Road No.4 - KM 7+032.8/ Rruga Sekondare Kryesore Nr.4 - KM 7+032.8 / Shuma B.4.2(a+b+c)							
		B.4.3. Traffic Signs, Road Markings and Safety on Main Secondary Roads / Sinjalizimet dhe Siguria Rrugore ne Rruget Sekondare Kryesore NR. 4 KM 7+032.8					
1		Circular Sign D=60 cm Al - C11/Tabele rrethore D=60 cm Al - C1 1	pcs/cope	2.00			
2		White thermoplastic road marking continues line width 15 cm/Vijezim termoplastik i bardh i vazhduar me gjeresi 15 cm	ml	300.00			
		Total Traffic Signs, Road Markings and Safety Main Secondary Road 4 KM 7+032.8 / Sinjalizimet dhe Siguria Rrugore Rruga Sekondare Kryesore 4 KM 7+032.8/ Total pjesor (d)/ Shuma B.4.3					
		Total Underpasses UN 1- Limuth Underpass KM 7+032.8 & Main Secondary Road 4 / UN 1- Nënkalimi I Limuthit KM 7+032.8 & Rruga Sekondare Kryesore nr.4 /SHUMA B4 (B4.1+B.4.2+B.4.3)					
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)	
B.5 Concrete curb on slop embankement / Bordure betoni ne skarpate (Main Road Tirane - Durres / Rruga Kryesore Tirane - Durres)							
1		Excavation with excavator 0.25 m³, common soil, category III, + auto transport to the place appointed to the commune / Gërmim dheu me ekskavator me goma 0.25 m3, tokë zak, kategoria III, me shk. në mjet.	m3	13.70			
2		Transport of excavated material / Transport dheu me auto ÷5km	m3	13.70			
3		Steel bars Ø B500, Ø > 12mm mm for Concrete curb / F V hekur betoni Ø > 12mm per Bordure betoni	ton	2.22			
4		Concrete structures C 25/30 for Concrete curb / Struktura monolite betoni C 25/30 per Bordure betoni	m3	13.70			
SubTotal Concrete curb on slop embankement / Bordure betoni ne skarpate (Main Road Tirane - Durres / Rruga Kryesore Tirane - Durres) / Shuma B5							
No. / Nr.	An	Item description / Pershkrimi I punimeve	Unit / Njesia	Quantity / Sasia	Rate / Cmimi (Lek)	Amount / Shuma (Lek)	
B.6 : Traffic Signs, Road Markings and Safety / Sinjalizimet dhe siguria rrrugore							
1		Sides Guardrails tipe H3 with 3 waves in one side W5+accessories / Guardrail H3 anesore me 3 valz. ne nje ane W5(elementi+lart)+aksesoret	ml	2100.00			
2		New Jersey Barrier / Barrier New Jersey	ml	2100.00			
3		Fence of the road with wire mesh / Rrethim rruge me rrjete teli	ml	2100.00			
4		Circular Sign D=90 cm Al - C12/Tabele rrethore D=90 cm Al - C1 2	pcs/cope	2.00			
5		Triangular Sign A=120 cm Al-C12/Tabele trekendore A=120 cm Al-C12	pcs/cope	1.00			
6		Square sign 50x50 cm Al-C11/Tabele katrore 50x50 cm Al-C11	pcs/cope	20.00			
7		White thermoplastic road marking continues line width 25 cm/Vijezim termoplastik i bardh i vazhduar me gjeresi 25 cm	m2	965.00			
8		White thermoplastic road marking discontinues line (1:1) width 25 cm/Vijezim termoplastik i bardh i nderprere (1:1) me gjeresi 25 cm	m2	17.30			
9		White thermoplastic road marking continues line width 15 cm/Vijezim termoplastik i bardh i vazhduar me gjeresi 15 cm	m2	80.00			
10		White thermoplastic road marking on central carriageway discontinues line (4.5:7.5) width 15 cm/Vijezim termoplastik i bardh ne mes te koresise i nderprere (4.5:7.5) me gjeresi 15 cm	m2	226.00			
11		Aluminium 10x10 cm Road Studs (Cat eyes) mounted in center line of carriageway every 25 m /Sy mace alumini (reflektor asfalti) 10x10 cm vendosur ne vijen e mesit te korsise cdo 25 m	pcs/cope	80.00			
Total Bill n° 10 : Traffic Signs, Road Markings and Safety on Main Road Tirane - Durres / Sinjalizimet dhe Siguria Rrugore ne Rruget Kryesore Tirane - Durres / Shuma B6							
		TOTAL B / SHUMA B (B1+B2+B3+B4+B5+B6)					
		TOTAL I / SHUMA I (A+ B)					
		CONTINGENCIE/ Fondi Rezerve 5%				ALL 0.05	
TOTAL EXLUDED VAT/ SHUMA ME Fond Rezerve							
I. Nyje disnivel Nr1 , Mbikalimi Kashar , Aksi rrugor km 6+00 - km7+050 Nënkalimi Limuthit dhe Rruget Sekondare Kryesore MSNo.3, MSNo.4							
TOTAL EXLUDED VAT/ SHUMA (I) PA TVSH							

II. Ndertimi i Njyes që lidh rrugën e Laknasit me zgjerimin e supertradës Tiranë-Durrës

NR.	KODI	EMËRTIMI I PUNIMEVE.	NJESI A	SASIA	ÇMIMI	VLEFTA
A. Punime Ndertimore						
		1. NENSHTRESA DHE SHTRESA NE TERRITORIN E NDERTESAVE				
1		Heqje bordura trotuari ekzistues	ml	1800.00		
2		Nenshtrese rere	m3	180.00		
3		Heqje pllaka betoni trotuari ekzistues	m2	1150.00		
		SHUMA 1:				
		2. PRISHJE				
4		Prishje mur blloqe betoni	m3	210.00		
5		Prishje mur tulle me pastrim	m3	110.00		
6		Prishje soleta b/a	m3	140.00		
7		Prishje mure beton/arme	m3	40.00		
8		Prishje kollona, trare b/a	m3	415.00		
		SHUMA 2:				
		3. NDERTIMI I VEPRAVE TE ARTIT+KANALIZIME				
9		Prishje struktura prej guri	m3	15.00		
10		Prishje struktura prej betoni	m3	110.00		
11		Mbushje me zhavorr pas mureve	m3	1535.00		
12		F.V. Tuba metalik D=219mm	ml	252.00		
13		Gjeotekstil me gramature 280 g/m2	m2	5923.00		
		SHUMA 3:				
		4. PUNIME SHTRESASH				
14		Skarifikim shtrese asfalti ekzistues me makineri	m2	8600.00		
15		Mbushje me cakell e gur gurore ne trupin e rruges, perhapur e ngjeshur me	m3	26969.00		
16		Mbushje me material te germuar ne trupin e rruges, perhapur e ngjeshur me	m3	4300.00		
17		Shtrese zhavorr lumi t=10cm	m2	24200.00		
18		Cilindrim kasonete me rul	m2	24200.00		
19		Shtrese stabilizant t=20cm	m2	22693.00		
20		Shtrese konglomerati t=10cm	m2	37930.00		
		SHUMA 4:				
		5. PUNIME DHEU				
21		Transport materiale ndertimi, dheu me auto deri 10.0 km	m3	18463.00		
		SHUMA 5:				
		6. PUNIME GERMIMI				
22		Germim dheu me ekskavator zingjir, 0.5 m³, ne kanale gjeresi > 2 m, toke zak, kategoria IV, me shk ne mjet	m3	22763.00		
23		Germim kanalesh ne toke te zakonshme, me krahe, me seksion deri 0.75 m²	m3	122.00		
		SHUMA 6:				
		7. PUNIME ASFALTIMI				
24		Shtrese binderi me granil gur kave,5cm,me makineri	m2	23494.00		
		SHUMA 7:				
		8. ANALIZA TEKNIKE				
25		Shtrese asfaltobetoni me granil guri kave, 4cm, me makineri	m2	23494.00		
		SHUMA 8:				
		9. PUNIME TE NDRYSHME				
26		F.V. Bordura betoni 15x30cm	m	4320.00		
27		Trotuar, me 6 cm beton, me pllaka	m2	3140.00		
28		F.V. Tuba plastmasi ø 80	m	926.00		
29		F.V. Bordura betoni 6x20 cm	m	228.00		
30		Mbjellje bari ne skarpat	m2	1860.00		
31		F.V. Dhe humusore	m3	593.00		
32		H / Izolim me emulsion, 2 K. Katr. + 3 duar bitum	m2	5650.00		
		SHUMA 9:				
		10. PUNIME BETONI E BETONARMEJE				
33		Struktura monolite betoni C 20/25	m3	252.00		
34		Struktura monolite betoni C 25/30	m3	7954.00		
35		Struktura monolite betoni C 7/10	m3	741.00		
36		Struktura monolite betoni C 12/15	m3	5.00		
37		Struktura monolite betoni C 16/20	m3	6.00		
38		Struktura monolite betoni me çakell C 30/37	m3	3565.00		
		SHUMA 10:				
		11. PUNIME HEKUR BETONI 3				
39		F.V. Hekur betoni i zakonshem Ø 6 ~ 10mm	ton	154.00		
40		F.V. Hekur betoni i zakonshem Ø > 12mm	ton	1637.00		
		SHUMA 11:				
		12. PUNIME HIDROIZOLIMI DHE ÇATITE				
41		Hidroizolim me emulsion dhe 2 bitum	m2	6400.00		
42		Shtrese lluster cemento 1:2 t = 20 mm	m2	5650.00		

		SHUMA 12:				
		13. PUNIME MURATURE GURI				
43		Mur me blloqe betoni 20cm, deri - 3m, me LL.P. M-15	m3	5.00		
		SHUMA 13:				
		14. TE NDRYSHME, ELEKTRIKE DHE SINJALISTIKA				
44		Fuge me gome speciale me kanal te gjere ne ura	ml	80.00		
45		F.V. Pervijues modulare te kthesave (qyfte)	copë	6.00		
46		F.V. Tabela trekendore normal me A = 90	copë	15.00		
47		F.V. Tabela katrore normal me diagonal vertikale 60x40	copë	4.00		
48		F.V. Guardrail- H4 anesore per ure me 3 valez. ne 1 ane, W4(elementi+ lart)	ml	1689.00		
49		F.V. Sinjalet e drejtimit interurban HxL normal 40x150	copë	15.00		
50		F.V. Tabele katërkëndore "shërbimi" e madhe 90x135	copë	7.00		
		SHUMA 14:				
		15. B. SINJALET HORIZONTALE				
51		Vijejim shirita gjatesor dhe anesor me gjeresi 15 cm.Termoplastike (sprajt)	ml	11833.00		
52		Vijejim shirita gjatesor dhe anesor me gjeresi 25 cm. Termoplastike (sprajt)	ml	3876.00		
53		Vijejimet e kalimit te kembesoreve. Termoplastike (sprajt)	m2	3233.00		
		SHUMA 15:				
		16. D. SINJALET DHE PAJISJET SHITESH. NGADALESUESIT E				
54		F.V. Tabela te ndryshme rrugore D=60cm	copë	22.00		
55		F.V. Elastometrike 300x400x84 mm	copë	300.00		
56		F.V. Tabela te medha informative + bazamenti "L" 5.5x3 m	copë	3.00		
57		F.V. Reflektor asfalti (sy mace)	copë	582.00		
58		F.V. Fidane shkurre dekorative "Oleander"	copë	560.00		
59		F.V. Tabela te medha informative + bazamenti "T" 5.5x3x3 m	copë	3.00		
60		F.V. Shkurre dekorative Juniperus V.18 grup 3, cdo 6.6m	copë	270.00		
61		F.V. Fidane Peme dekorative	copë	80.00		
62		F.V. Fidane bime kacaverrese	copë	420.00		
63		F.V. Tabela te medha informative + bazamenti "U", H=5.5 m	copë	2.00		
		SHUMA 16:				
		17. ANALIZA JASHTË LISTE				
64		Prerje asfalti ekzistues	ml	70.00		
65		F.V. Bordure betoni C 20/25 10x20cm	ml	955.00		
66		F.V. Lllamarine e godrinuar per fuge trotuari	m2	7.00		
67		F.V Trare te parapergatitur b/a te paranderur C 45/55 L= 21 ml (sipas vizatimeve te projektit)	copë	48.00		
68		F.V Trare te parapergatitur b/a te paranderur C 45/55 L= 17.8ml (sipas vizatimeve te projektit)	copë	102.00		
69		F.V panele te parapergatitura b/arme, C 30/37, per soleten e ures (sipas vizatimeve te projektit)	m2	1040.00		
70		F.V panele anesore te parapergatitura b/arme, C 30/37,(sipas vizatimeve te projektit)	m	1242.00		
71		F V elastometrike 300x250x50mm	copë	248.00		
72		F.V. Hinka kullimi ujrash siperfaqesore	copë	38.00		
73		Shpim me sonda me nevojën per kemishim gjat procesit te shpimit Ø 1000mm, thellesia (0-15m).	m	2795.00		
74		F.V Panele me rrjete teli e zinkuar per barriera rrugore, H=2 m	m	1640.00		
		SHUMA 17:				
B. Punime në rrjetin e K.U.B-së						
NR.	KODI	EMËRTIMI I PUNIMEVE	NJËSI	SASIA	ÇMIMI	VLEFTA
		1. PUNIME GERMIMI				
1		Germim dheu me ekskavator goma 0.25 m³, ne kanale gjeresi deri 2 m, toke zak, kategoria III, me shk ne mjet	m3	22700.00		
2		Germim kanalesh ne toke te zakonshme, me krahe, me seksion deri 0.75 m²	m3	595.00		
		Shuma 1:				
		2. PUNIME DHEU				
3		Transport materiale ndertimi, dheu me auto deri 10.0 km	m3	15963.00		
		Shuma 2:				
		3. PRISHJE				
4		Prishje shtresa betoni >	m3	10.00		
		Shuma 3:				
		4. PUNIME SHITESH				
5		Mbushje me cakell e gur gurore ne trupin e rruges, perhapur e ngjeshur me	m3	11630.00		
6		Shtrese zhavor lumi t=10cm	m2	4370.00		
		Shuma 4:				
		5. TE NDRYSHME, ELEKTRIKE DHE SINJALISTIKA				
7		F.V. Tuba te brinjezuar HDPE SN8 d=315 mm	ml	2165.00		
8		F.V. Tuba te brinjezuar HDPE SN8 d=400 mm	ml	1132.00		
9		F.V. Tuba te brinjezuar HDPE SN8 d=500 mm	ml	395.00		

10		F.V. Tuba te brinjezuar HDPE SN8 d=600 mm	ml	155.00		
		Shuma 5:				
		6. UJESJELLES E KANALIZIM I JASHEM				
11		Pusete shiu 40 x 60, h = 100 cm, me kapak gize	copë	456.00		
		Shuma 6:				
		7. PUNIME SHITRESASH 2				
12		Shtrese betoni C 6/10	m3	437.00		
		Shuma 7:				
		8. PUNIME BETONI E BETONARMEJE				
13		Struktura monolite betoni C 20/25	m3	1970.00		
		Shuma 8:				
		9. PUNIME HEKUR BETONI 3				
14		F.V. Hekur betoni i zakonshem Ø > 12mm	ton	259.00		
		Shuma 9:				
		10. INSTALIME HIDRO-SANITARE DHE NGROHJE				
15		F.V. Tuba e rakorderi ujesjellesi PE d=250mm, t = 18.4 mm, Pn 10	ml	72.00		
16		F.V. Tuba e rakorderi ujesjellesi PE d=160mm, t = 11.8 mm, Pn 10	ml	997.00		
17		F.V. Tuba e rakorderi ujesjellesi PE d=90mm, Pn 16	ml	1153.00		
18		F.V. Tuba çeliku Ø ~ 200mm	kg	3642.00		
		Shuma 10:				
		11. ANALIZA JASHE LISTE				
19		F.v Kapak gize per pusetat	copë	27.00		
		Shuma 11:				
					Total /Shuma II (A+ B)	
					Fondi Rezervë (3.0%)	
					Shuma II me Fondi Rezervë	
II. Ndertimi i Nyjes që lidh rrugën e Laknasit me zgjerimin e supertradës T iranë-Durrës / SHUMA (II) PA TVSH						
					SHUMA (I) + SHUMA(II) PA TVSH	
					TVSH(20%)	
					GRAND TOTAL INCLUDED VAT / SHUMA TOTALE ME TVSH	