

BILL OF QUANTITIES
MAIN DESIGN OF LANDSLIDE REMEDY
ON THE STATE ROAD OF II A CLASS NO 175, SECTION: BOGDANOVIĆA BRDO -
DIVČIBARE,
from km 35+880 to km 35+900, ID-3600

No	WORKS DESCRIPTION	Unit	Quantity	Unit price	Total USD
I PRELIMINARY WORKS					
1	Forming of construction site, construction and installation of temporary structures, delivery and mounting of ancilliary facilities and equipment, etc.	lump sum	1.00		
2	Surveying	lump sum	1.00		
3	Clearing of undergrowth and small vegetation.	lump sum	1.00		
TOTAL:					
II EARTH AND DRAINAGE WORKS					
1	Excavation of earth from 2nd to 4th category for the purpose of constructing , pipe culverts and manhole. The excavation is to be done 80% mechanically, and 20% manually. The excavation is to be done with supporting timber and pumping of groundwater from the foundation pit. After the excavation, grade the pit bottom with accuracy of ±1.5cm and compact the subsoil to the compressibility module of Ms=15.0 MPa. Transportation of excavated soil to be done up to a distance of 5km to a disposal determined by the Supervisor. Calculation per m3 of removed material.	m3	418.37		
2	Mechanical excavation of earth in side cut excavation, 2nd to 4th category, for the purpose of removing deformed and slided soil of the slope below the road in the section affected by the landslide. The excavation is done with side cut from the top to the bottom. Transportation of excavated soil up to a distance of 5km to a disposal determined by the Supervisor. $134.52 \cdot (30+12+9)/2 + 17.64 \cdot 4 = 3500.82 \text{m}^3$ Calculation per m3 of removed material.	m3	3,500.82		

3	Excavation of earth in 2nd and 4th category of soil for the purpose of constructing drain trench up to the depth of 1.5m, with supporting as needed. Cut the lateral sides regularly and level the bottom. Transportation of excavated material up to a distance of 5km to a disposal determined by the Supervisor. $79.24 \times 1.5 \times 0.60 = 71.32 \text{m}^3$. Calculation per m3 of removed material.	m3	71.32		
4	Supply, transportation and construction of 'mattress' from coursed crushed stone in the embankment base. The size of the incorporated stone is $d_{\text{max}} = 25\text{cm}$. Tip the crushed stone, spread, arrange as good as possible, and compact in the end. The stone must be firm and clean and resistant to frost, with compressive strength of 100MPa and with good resistance properties $\phi > 42^\circ$. $8.28 \times 30 = 248.4 \text{m}^3$. Calculation per m3 of completed 'mattress'.	m3	248.40		
5	Construction of embankment from smaller crushed stone. The size of the incorporated stone is $d_{\text{max}} = 15\text{cm}$. Tip the crushed stone, spread, arrange as good as possible, and compact in the end. The stone must be firm and clean and resistant to frost, with compressive strength of 100MPa and with good resistance properties $\phi > 35^\circ$ and granulation of $C_u > 9-30$. Compaction to be done by appropriate mechanical means in layers of 50-80cm. The compaction degree of the layers must be fully in accordance with SPRS U. E1.010 and designed technical solutions. The works cover the supply of material, spreading, coarse and fine grading, wetting and compacting of the embankment. Calculation per m3 of constructed embankment.	m3	3,252.42		
6	Supply, transportation and incorporation of filter layer from stone chippings (1-6cm) with the thickness of 40cm. $79.24 \times 0.6 \times 0.4 = 19.02 \text{m}^3$. Calculation per m3 of incorporated material.	m3	19.02		

7	Supply and laying of non-woven geotextile as lining of the 'bed' from polypropylene fibers (PP), with tensile strength of geotextile of $\beta \geq 60$ kN/m, elongation of $\epsilon \leq 20\%$. $35.46 * 30 + 10 * 0.8 * 2 = 1079.8 \text{m}^2$ Calculation per m2 of laid geotextile.	m2	1,079.80		
8	Supply, transportation and incorporation of non-woven geotextile of the type 300 (300gr/m2) as a filter layer at the joint of the new fill material with the old, in order to protect against siltation. $36.20 * (30 + 21) / 2 + 134.52 * 2 = 1192.14 \text{m}^2$ Calculation per m2 of incorporated material.	m2	1,192.14		
9	Supply and laying of HDPE corrugated double layer drain pipe, with a diameter of 200mm on the bottom of the drain trench. The pipes are perforated on the upper side, and they are supplied with all fittings and joining material. Introduce the pipe into the manhole at the place of pipe culvert. The price includes all works, transportation and material for completion of the item. Calculation per m' of laid pipe.	m	79.24		
10	Supply of material and construction of lining of the segmental trench from crushed stone laid into MB15 concrete, with the total thickness of 25-30cm and width of ~100cm. The price includes the supply and construction of the concrete base. $49.43 + 2 * 1.0 + 12.48 + 15.33 = 79.24 \text{m}'$. Calculation per m' of completed lining.	m	79.24		
11	Making of the vegetative layer with the thickness of 20cm on the slopes of the new embankment. Topsoiling to be done by using active topsoil material that guarantees durability of the vegetation. $128.48 + 35.41 * (30 + 21) / 2 = 1031.44 \text{m}^2$ Calculation per m2 of topsoiled surface.	m2	1,031.44		
			TOTAL:		

III CONCRETE WORKS

1	Construction of pipe culverts, Ø1000. The item includes the supply, laying and joining of Ø1000 pipes on a layer of concrete base according to the design, fully in accordance with the SRPS U.N1.054 standard. The pipes are coated with MB20 concrete fully in accordance with the SRPS U.S4.034 standard. Outlet head is constructed according to the details given in the design, and in accordance with the SRPS U.S4.032 standard. The quality of pipes must comply with the SRPS U.N1.050 standard. Two pipe culverts are being constructed: 'upper' with the length of 13.7m and 'lower' with the length of 6.1m. 13.7+6.1=19.8m'. Calculation per m' of completed culvert.	m	19.80		
2	Construction of the RC manhole with frontal inlet from MB30 concrete, resistant to frost M100, in necessary formwork with mechanical compacting and according to the regulations for this kind of works and fully in accordance with the details in the design. Calculation per m3 of concreted manhole.	m3	3.55		
3	Construction of the RC manhole with frontal inlet and side trench from MB30 concrete, resistant to frost M100, according to the SRPS U.S4.025 standard in separate formwork with mechanical compacting and according to the regulations for this kind of works and fully in accordance with the details in the design. Calculation per m3 of concreted manhole.	m3	3.73		
4	Supply, transportation and construction of RC trapezoidal drainage canal from MB30 concrete, resistant to frost M-100. Calculation per m' of completed canal.	m	38.00		
5	Supply, transportation and installation of prefabricated elements of canal with a tooth for draining water from the gutters, from MB30 concrete, resistant to frost M-100. Calculation per m' of canal.	m	7.50		
			TOTAL:		

IV OTHER WORKS

1	Demolition of pavement of the road in the section planned by the design for the replacement of the pipe culvert, i.e. along the edge of the front of material replacement. The item includes the following: demolition, loading and transportation of demolished material to a disposal determined by the Supervisor within 5km. Calculation per m ² of demolished road surface pavement.	m2	44.13		
2	Supply, transportation and incorporation of lower bearing course of the pavement from crushed stone aggregate of 0/63mm of continuous granulometric composition, with a thickness of 25cm in compacted state. Calculation per m2 of incorporated material.	m2	44.13		
3	Supply, transportation and incorporation of lower bearing course of the pavement from crushed stone aggregate of 0/31mm of continuous granulometric composition, with a thickness of 25cm in compacted state. Calculation per m2 of incorporated material.	m2	44.13		
4	Supply, transportation and incorporation of the upper bitumenous base course from BNS22 (10cm thick). Calculation per m2 of completed course.	m2	44.13		
5	Supply, transportation and incorporation of wearing course of the carriageway from AB16 asphalt with the thickness of 6cm in the part of the road section which is being remedied and fitting into the existing pavement. Calculation per m2 of completed course.	m2	44.13		

6	Construction of shoulders from crushed stone aggregate with the size of 0 - 31.5mm. 79.24*0.082=6.50m ³ Calculation per m ³ of incorporated material.	m ³	6.50		
7	Construction of gutter from asphalt-concrete according to the SRPS U.S4.062 standard in the length of ~200m along the left edge of the road. The gutter is made from concrete curb 18/24 with concrete quality of MB30, resistance to frost of M100 on the base from compacted concrete MB15 and asphalt-concrete layer with the thickness of 10cm to the joint with the existing pavement. Calculation per m' of constructed gutter.	m	200.00		
8	As build design	lump sum	1.00		
TOTAL:					
V TRAFFIC SIGNALIZATION AND ROAD FURNITURE					
1	Horizontal signalization				
	White unbroken line with the width of 0.12m	m ²	2.76		
2	Temporary traffic signalization	lump sum	1.00		
TOTAL:					

SUMMARY:

GROUP OF WORKS	TOTAL
I PRELIMINARY WORKS	
II EARTH AND DRAINAGE WORKS	
III CONCRETE WORKS	
IV OTHER WORKS	
VI TRAFFIC SIGNALIZATION AND ROAD FURNITURE	
TOTAL:	

BILL OF QUANTITIES
MAIN DESIGN OF LANDSLIDE REMEDY
ON THE STATE ROAD OF II A CLASS NO 175, SECTION: BOGDANOVIĆA BRDO -
from km 39+410 to km 39+450, ID-3601

No	WORKS DESCRIPTION	Unit	Quantity	Unit price	Total USD
I PRELIMINARY WORKS					
1	Forming of construction site, construction and installation of temporary structures, delivery and mounting of ancilliary facilities and equipment, etc.	lump sum	1.00		
2	Surveying	lump sum	1.00		
3	Preparatory works relating to the clearing of undergrowth with a bulldozer and felling of trees on the part of the slope that is being reconstructed, with transportation up to 2km.	m2	714.00		
4	Demolition of the part of the existing concrete wall on the right side of the road in the length of ~9.0m for the purpose of building the RC wall 1.	lump sum	1.00		
TOTAL:					
II EARTH AND DRAINAGE WORKS					
1	Bulk excavation of the displaced material of the 1st and 2nd category on the slope and bringing the slope inclination into the designed state according to the details from the Design. Bulk excavation is to be done 100% mechanically, with loading and transportation of the excavated material to a length of up to 2km.	m3	940.08		
2	Excavation of the earth of 5th and 6th category for the purpose of founding of the retaining RC wall. The excavation is to be done 100% mechanically. The excavated trenches, as needed, partly support and timber. The excavation of earth involves working in wet conditions with possible pumping of water. Transportation of excavated soil to a length of up to 2km. Foundations of the supporting structure to be executed according to the plans in the Design. RC wall 1: 47.21m3 RC wall 2: 64.52m3	m3	111.73		

3	Excavation of earth of 3rd and 4th category for the purpose of founding of the retaining RC wall. The excavation is to be done 100% mechanically, with an excavator. The excavated trenches, as needed, partly support and timber. The excavation of earth involves working in wet conditions with possible pumping of water. Transportation of excavated soil to a length of up to 2km. Foundations of the supporting structure to be executed according to the plans in the Design. RC wall 1: 96.78m3 RC wall 2: 445.29m3	m3	542.07		
4	Excavation for the purpose of constructing a drain trench in the soil of 3rd and 4th category, 80% mechanically, 20% manually, while supporting the trenches with strong timber. The excavation of the trenches involves working in damp and wet soil with possible pumping of water. Transportation of excavated soil to a length of up to 2km. Calculation per m3 of excavated material.	m3	103.25		
5	Filling of drain trenches and filling behind the RC walls with crushed stone the size of 10-25cm, of continuous granulation fully in accordance with the design. Calculation per m3 of filled material. drainage: 68.14m3 RC wall 1: 107.99m3 RC wall 2 and replacement of material in the fill: 177.14m3	m3	353.27		
			TOTAL:		
III CONCRETE WORKS					
1	Supply, transportation and incorporation of base concrete for the construction of the foundation of the RC walla and RC canal from MB20 concrete. RC wall 1: 9.68m3 RC wall 2: 10.52m3	m3	20.20		

2	<p>Supply, transportation and incorporation of concrete for the construction of retaining wall, of the type MB30, M-150, into preprepared formwork in layers of 30cm with mechanical compaction of each layer according to the applicable regulations for this kind of works.</p> <p>This item covers all necessary carpentry works on the preparation of the formwork and scaffolding, and the curing of concrete after concreting.</p> <p>RC wall 1: 96.64m³ RC wall 2: 132.39m³</p>	m ³	229.03		
3	<p>Supply, transportation, cutting, shaping and laying of ribbed reinforcement RA 400/500 and mesh reinforcement MA 500/560</p> <p>RC wall 1: 5207.74kg RC wall 2: 4629.49kg</p>	kg	9,837.23		
4	<p>Filter layer from thermopressed non-woven geotextile of the type 300, (300 g/m²). Calculation per m² of laid geotextile.</p> <p>Drainage: 256.37m² RC wall 1: 224.00m² RC wall 2: 255.77m²</p>	m ²	736.14		
5	<p>Construction of clay cap from a layer of compacted clay with the thickness of 30cm above the drain trenches and filling behind the RC walls.</p> <p>Drainage: 12.4m³ RC wall 1: 25.99m³ RC wall 2: 10.24m³</p>	m ³	48.63		
6	<p>Construction of open concrete canals 1, 2, 3 and 4 from MB30, M-100. The item covers concreting, supply and incorporation of mesh reinforcement along the middle with necessary formwork.</p> <p>Calculation per m¹ of constructed canal. RC canal 1: L=50.69m, G=407.5kg RC canal 2: L=26.08m, G=227.2kg RC canal 3: L=44.29m, G=365.3kg RC canal 4: L=14.00m, G=123.7kg</p>	m ¹	134.91		
7	<p>Construction of prefabricated concrete channel behind the RC wall 1 from MB40</p>	m ¹	10.00		
8	<p>Construction of concrete gutter on the right side of the road in the zone of the RC wall 2 from MB40</p>	m ¹	46.00		
9	<p>Construction of weep holes in the body of the RC wall, Ø100</p>	pcs	50.00		

10	Topsoiling of the slope with topsoil layer, 20cm thick, mixed with grass seed.	m2	834.30		
			TOTAL:		
IV PAVEMENT					
1	Construction of the lower bearing course of the pavement structure from a layer of crushed stone, with the grain size of up to 0-63mm, of continuous granulometric composition, 25cm thick in compacted state.	m3	31.10		
2	Construction of the lower bearing course of the pavement structure from a layer of crushed stone, with the grain size of up to 0-31mm, of continuous granulometric composition, 25cm thick in compacted state.	m3	11.54		
3	Construction of the upper bitumenous base course from BNS 22, with a thickness of 8cm according to SRPS U.E4.014.	m2	87.54		
4	Construction of the wearing course from asphalt concrete AB 11 with a thickness of 4cm according to SRPS U.E4.014.	m2	88.32		
5	Construction of stabilized shoulders from crushed stone aggregate of 0/31, 10 cm thick	m2	100.00		
6	As build design	lump sum	1.00		
			TOTAL:		
V TRAFFIC SIGNALIZATION AND ROAD FURNITURE					
1	Horizontal signalization				
	White unbroken line with the width of 0.12m	m2	6.60		
2	Road equipment				
	Guardrail N2W5	m	72.00		
	Oblique guradrail endinngs N2W5 L=12m	pcs	2.00		
	Reflective studs (catadiopters)	pcs	5.00		
3	Temporary traffic signalization	lump sum	1.00		
			TOTAL:		

SUMMARY:

GROUP OF WORKS	TOTAL
I PRELIMINARY WORKS	
II EARTH AND DRAINAGE WORKS	
III CONCRETE WORKS	
IV PAVEMENT	
V TRAFFIC SIGNALIZATION AND ROAD FURNITURE	
TOTAL:	

BILL OF QUANTITIES
MAIN DESIGN OF LANDSLIDE REMEDY
ON THE STATE ROAD OF II A CLASS NO 175, SECTION: BOGDANOVIĆA BRDO -
DIVČIBARE,
from km 30+250 to km 30+320

No	WORKS DESCRIPTION	Unit	Quantity	Unit price	Total USD
I PRELIMINARY WORKS					
1	Forming of construction site, construction and installation of temporary structures, delivery and mounting of ancilliary facilities and equipment, etc.	lump sum	1.00		
2	Surveying	lump sum	1.00		
3	Clearing of the ground from undergrowth and vegetation.	lump sum	1.00		
4	Bulk excavation of earth of 3rd and 4th category for the purpose of replacing deformed and waterlogged soil on the landslide. The excavation is to be done 100% mechanically, with an excavator or bulldozer. Transportation of excavated soil to a disposal, determined by the Supervisor, at a distance of up to 2km. The item covers working in wet conditions. The disposal is to be done in layers of 40cm and partially compacted, according to the plan given by the Supervisor. 200.8+113.22	m3	314.02		
5	Excavation for the purpose of constructing drain trenches and culverts in the soil of 3rd and 4th category, 80% mechanically, 20% manually, while supporting the trenches with strong timber. The excavation of the trenches involves working in damp and wet soil with possible pumping of water. Transportation of excavated soil to a disposal determined by the Supervisor at a distance of up to 2km. Part of the excavated soil is not to be transported, but kept for the making of the topsoil layer. The disposal is to be done in layers of 40cm and partially compacted, according to the plan given by the Supervisor.	m3	572.37		
6	Demolition of the pavement base in a layer of 30cm. This item covers demolition, loading and transportation of the demolished material to a disposal determined by the Supervisor up to a distance of 5km.	m2	54.77		

7	Filling of drain canals with crushed stone with the size of 10-25cm, of continuous granulation. Crushed stone should be produced from a rock, which has compressive strength. Water absorption up to 2%.	m3	425.98		
8	Filter layer from thermopressed non-woven geotextile of the type 300, (300 g/m ²), for the drain trench and new embankment.	m ²	1,041.51		
9	Supply and laying of woven geotextile from polyester (RET), with the properties $\beta z=40\text{kN/m}$, $\epsilon<12\%$, which wraps the sand-gravel soil or stone debris in the construction of the mattress.	m ²	329.27		
10	Construction of the mattress from sand-gravel or crushed stone aggregate with the size of 0-31.5mm, wrapped by woven geotextile. Ground from crushed stone aggregate should have: continuous granulometric composition, and properties fully in accordance with the standard for the construction of the final layer of the substructure - SRPS U.E1.010:1981.	m ³	113.22		
11	Construction of the embankment from sand-gravel or crushed stone aggregate with the grain size of 0-31.5 mm. The ground from sand-gravel or crushed stone aggregate should be of continuous granulometric composition, with the coefficient of uniformity and properties fully in accordance with the standard for the construction of the final layer of the substructure - SRPS U.E1.010:1981.	m ³	200.80		
12	Construction of the lower bearing course of the pavement from a layer of crushed stone aggregate with the grain size of up to 31.5 mm, with the thickness of 25 cm in compacted state. The material should have medium compressive strength of at least 120 (MPa) in dry state, should be resistant to weathering, water absorption (SRPS B.B8.031) max. 1.6%, should not be prone to degradation due to construction site traffic, weathered grains max. 7%, resistance to abrasion by Los Angeles test max. 40%, should be of continuous granulometric composition, coefficient of uniformity of $CU>15$, coefficient of curvature of $CC=1-3$; $CBR > 80\%$; sand equivalent $Es>60$, compressibility module $M_s = 90\text{MPa}$; percentage of particles smaller than 0.06mm up to 5%.	m ³	18.52		

13	Construction of the upper bitumenous base course from BNS 22, with a thickness of 9cm for the purpose of pavement construction.	m2	74.09		
14	Construction of the wearing course from asphalt concrete AB 11 with a thickness of 4cm for the purpose of pavement construction.	m2	74.09		
15	Construction of asphalt gutter. The price includes the supply, transportation and laying of the 18/24 curb and asphalt.	m1	32.00		
16	Construction of stabilized shoulders and berms.	m2	96.00		
17	Laying of a topsoil layer with the thickness of 20cm on the slopes of the embankment, from the soil obtained by digging drain trenches.	m2	100.00		
18	Construction of clay cap on the surface of the trenches with the thickness of 30cm.	m3	44.48		
19	Supply and incorporation of plastic perforated pipe F300 in the trench.	m1	6.60		
20	Construction of concrete canal, from MB30 concrete, M-150, measuring 50X25X100	m1	60.00		
21	Lean concrete as base under the canal	m3	1.88		
22	Base layer from gravel material under the canal 0.4 X 0.1 X 94m	m3	3.76		
23	Construction of the outlet concrete portal (head walls) from MB 30 concrete, M-150, with formwork.	m3	3.84		
24	Reinforcement for the head wall of the trenches 55.0 x 3 pcs.	kg	165.00		
25	As build design	lump sum	1.00		
			TOTAL:		
II TRAFFIC SIGNALIZATION AND ROAD FURNITURE					
1	Horizontal signalization				
	White unbroken line with the width of 0.12m	m2	7.44		
2	Road furniture				
	Guardrail N2W5	m	60.00		
	Oblique guradrail endinngs N2W5 L=12m	pcs	1.00		
	Reflective studs (catadiopters)	pcs	6.00		
3	Temporary traffic signalization	lump sum	1.00		
			TOTAL:		

SUMMARY:

GROUP OF WORKS	TOTAL
I PRELIMINARY WORKS	
II TRAFFIC SIGNALIZATION AND ROAD FURNITURE	
TOTAL:	

BILL OF QUANTITIES
MAIN DESIGN OF LANDSLIDE REMEDY
ON THE STATE ROAD OF IIA CLASS NO 141 SECTION: UB - KOCELJEVA
at km 40+400

No	WORKS DESCRIPTION	Unit	Quantity	Unit price	Total USD
I PRELIMINARY WORKS					
1	Forming of the construction site, security guard service, transportation of machinery, equipment and workers, construction of access roads. Calculation is given as a lump sum.	lump sum	1.00		
2	Clearing and preparation of the ground - manual cutting of thick undergrowth with loading and transportation to a disposal. Calculation is given as a lump sum.	lump sum	1.00		
3	Surveying of designed solution. Calculation is given as a lump sum.	lump sum	1.00		
4	Removal of the existing pavement in approx. 20 cm thick layer, with loading and transportation to a disposal. Calculation is given per m ² of removed pavement.	m ²	605.00		
5	Removal of the existing RC canal in a length of 82.5 m, with loading and transportation to a disposal. Calculation is given per m of removed canal.	m	82.50		
6	Disassembling and reassembling of concrete lamppost on the right side of the road. Calculation is given per removed lamppost.	pcs	1.00		
TOTAL:					
II EARTH WORKS					
1	Mechanical excavation of the earth of 2nd and 3rd category from km 0+010 to km 0+100 and in places of cross drains at km 0+020 and 0+060 with mechanical loading and transportation of excess earthen material to a disposal determined by the Supervisor, at a distance of up to 5 km, fully in accordance with the detail from the design. Calculation per m ³ of excavated material.	m ³	2,122.00		

2	Topsoiling of the embankment slope from km 0+010 to km 0+100 in a layer of 20 cm with topsoil, mixed with grass seed, from a disposal at 60m and the rest with transportation within 5km. This item also includes the topsoiling of shoulders and berms. Calculation per m ² topsoil.	m ²	295.00		
3	Topsoiling of the embankment slope from km 0+010 to km 0+100 and on the slopes of cross drains at km 0+020 and 0+060 in a layer of 60 cm with topsoil, mixed with grass seed, from a disposal at 60m and the rest with transportation within 5km. 495+48.86+35.33=579. Calculation per m ² topsoil.	m ²	580.00		
4	Supply, transportation and incorporation of CSA with the grain size of up to 0/63 mm into the upper part of the road base, below the sub base layer from km 0+020 to km 0+090, in layers of 50 cm, with compacting of each layer, fully in accordance with the design. Calculation per m ³ of incorporated material.	m ³	806.00		
			TOTAL:		
III CONCRETE WORKS					
1	Supply, transportation and incorporation of material for the construction of the RC canal on the left side of the road from km 0+010 to km 0+100 and in places of joining with the existing canal, from MB30 concrete resistant to frost and water. Calculation per m ³ of incorporated concrete.	m ³	11.00		
			TOTAL:		
IV REINFORCEMENT WORKS					
1	Supply, transportation and installation of MA 500/560 reinforcement for the RC canal, on the left side of the road, from km 0+010 to km 0+100 and in places of joining with the existing canal. Fully in accordance with the design. Calculation per kg of installed reinforcement.	kg	539.00		
			TOTAL:		

V DRAINAGE WORKS					
1	Supply, transportation and laying of RC pipe, Ø 30 cm, in places of crossing over the canal, fully in accordance with the design. Calculation per m of pipe.	m	8.00		
2	Supply, transportation and incorporation of filter material wrapped in geotextile at the bottom of the drain, from km 0+010 to km 0+100 and at km 0+020 0+060 into cross drains, from CSA with the fraction of 8/31.5 mm in layers, with compacting of each layer, fully in accordance with the design. $200+18.03+18.93=236.96$. Calculation per m ³ of incorporated material.	m ³	237.00		
3	Supply, transportation and incorporation of CSA with the grain size of up to 8/200 mm into the upper part of the deep drain from km 0+010 to km 0+100 and at km 0+020 0+060 in layers of 50 cm, with compaction of each layer, fully in accordance with the design. $674+13.32+16.20=703.52$. Calculation per m ³ of incorporated material.	m ³	704.00		
4	Supply, transportation and laying of filter layer from geotextile (surface mass 310 g/m ² , tensile strength (MD/CMD) 30/30 kN/m, elongation at Fmax (MD/CMD) 13/13%, opening size <7 µm, water permeability 0.035 m/s, drainage 30 l/m ² s) between the filter material and layer from CSA (8/200), an dalong the edge of the excavation, from km 0+010 to km 0+100 and at km 0+020 0+060 into cross drains, fully in accordance with the design. Calculation per m ² of laid geotextile.	m ²	1,605.00		
5	Supply, transportation and installation of wedged concrete flumes along the slope of the embankmnet at km 0+040 and 0+070, fully in accordance with the design. Calculation is given per m of installed concrete flumes.	m	13.00		
6	Supply, transportation and installation of high curbs on the right side of the road from km 0+000 to km 0+110, fully in accordance with the design. Calculation is given per m of installed curb.	m	110.00		
TOTAL:					

VI PAVEMENT					
1	Construction of a new lower sub base course from crushed stone aggregate of 0/63 mm in a layer of 20 cm, fully in accordance with the design. Calculation per m ³ of layer.	m ³	155.00		
2	Construction of a new upper sub base course from crushed stone aggregate of 0/31.5 mm, in a layer of 15 cm, fully in accordance with the design.	m ³	98.00		
3	Construction of a bituminous base course from BNS22 A with BIT 50/70, with the thickness of 6cm, fully in accordance with the design. Calculation per m ² of layer.	m ²	608.00		
4	Construction of a new wearing course from AB11s with BIT 50/70, in a layer of 4cm, fully in accordance with the details from the design. Calculation per m ² of the layer.	m ²	605.00		
5	As build design	lump sum	1.00		
			TOTAL:		
VII TRAFFIC SIGNALIZATION AND ROAD FURNITURE					
1	Vertical traffic signalization				
	Retroreflective round traffic sign, Ø600mm, class II, with anti-gaffitti film				
	II-28	pcs	2.00		
	III-12	pcs	2.00		
	Traffic sign carrier post, steel galvanized pipe, Ø60 mm with PVC cap L=3000	pcs	4.00		
2	Horizontal signalization				
	Unbroken white line with the width of 0.12 m	m ²	7.00		
	line 5m+5m, with the width of 0.12m	m ²	12.00		
3	Road furniture				
	Oblique guard rail endings JDO, 12 m	pcs	2.00		
4	Temporary traffic signalization	lump sum	1.00		
			TOTAL:		

SUMMARY:

GROUP OF WORKS	TOTAL
I PRELIMINARY WORKS	
II EARTH WORKS	
III CONCRETE WORKS	
IV REINFORCEMENT WORKS	
V DRAINAGE WORKS	
VI PAVEMENT	
VII TRAFFIC SIGNALIZATION AND ROAD FURNITURE	
TOTAL:	

K1

**BILL OF QUANTITIES
MAIN DESIGN OF LANDSLIDE REMEDY
ON THE STATE ROAD OF IB CLASS NO 21 SECTION: SLATINA - VALJEVO
FROM KM 2+912 TO KM 2+988**

No	Item description	Unit	Quantity	Unit price USD	Total USD
I	PRELIMINARY AND FINISHING WORKS				
1	Preliminary works on the formation of the construction site, delivery of machinery and workers, clearing of the ground from shrubs, trees and vegetation, and laying of temporary traffic signalization.	lump sum	1.00		
2	Marking of the structure by placement of firm points, with wooden pegs or metal studs, and at least one point should be secured as the permanent geodetic benchmark during the entire construction (with concrete geodetic pillar with a metal plate). Permanent point must be linked to the national coordinate system. During the construction, the contractor must regularly maintain all permanent points and placed markings. The price includes surveying of the built retaining wall. Calculation is a lump sum.	lump sum	1.00		
TOTAL PRELIMINARY AND FINISHING WORKS					
II	DEMOLITION AND DISASSEMBLING				
1	Demolition of massive concrete retaining walls. The price includes the transportation to a landfill at a distance of up to 25 km. Calculation per m3 of demolished wall.	m3	114.00		
2	Cutting of the pavement surfacing from asphalt concrete and bitumenous layer, with the total thickness of 18 cm. The cutting should be done along the road axis and perpendicularly to the road direction in the length of the supporting structure following the direction of the road axis in order to get a visually acceptable line between the old and new surfacing. Calculation per m1 of cutting.	m1	69.11		
3	Demolition of the pavement surfacing from asphalt concrete and bitumenous layer, with the total thickness of 18 cm within the cut. The price includes transportation to a disposal at a distance of up to 25 km. Calculation per m2 of demolished pavement.	m2	55.76		
TOTAL DEMOLITION AND DISASSEMBLING					

III	EARTH WORKS				
1	Mechanical excavation of earth of 3rd category with the construction of slopes during the construction of the foundation and securing of the excavation from collapsing with supporting timber during the construction of walls. The price includes the transportation to a disposal at a distance of up to 25 km. Calculation per m3 of excavated material.	m3	340.20		
2	Mechanical excavation of earth of 4th and 5th category for the foundations of retaining walls and forming of stone mound behind the wall. The price includes transportation to a disposal at a distance of up to 25 km. Calculation per m3 of excavated material.	m3	349.42		
3	Mechanical and manual excavation of earth of 3rd category during the construction of the canal for draining of water. The price includes transportation to a disposal at a distance of up to 25 km. Calculation per m3 of excavated material.	m3	11.80		
4	Filling over the foundation slab and along the wall with stone mound of the size 31.5-100 mm. The filling should be done in layers of up to 50 cm with mechanical compacting to compaction degree of 30 Mpa, measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	396.59		
5	Filling over the stone mound of the mixture of crushed stone aggregate of 16-31.5 mm and topsoil in the ratio of 25:75, with the thickness of 20 cm with mechanical compacting to compaction degree of 30 Mpa, measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	228.82		
6	Filling of a topsoil layer with the thickness of 20cm over the mixture of crushed stone aggregate and topsoil. Calculation per m3 of filled material.	m3	140.54		
7	Incorporation of sandy gravel into the sub base layer of demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 37 cm. Required compressibility module is 60 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	14.63		

8	Incorporation of crushed aggregate with the grain size of 0-63 mm in the sub base layer of the demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 25 cm. Required compressibility module is 80 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	9.89		
9	Incorporation of the base course of crushed stone aggregate with the grain size of 0-31.5 mm u debljini od 20 cm in the sub base layer of the demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 120 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	7.91		
10	Incorporation of the sub base layer from crushed stone aggregate with the grain size of 0-31.5 mm with the thickness of 20cm as the base for the lean concrete layer during the construction of the canals for the drainage of water. The sub base layer is by 20cm wider than the outer measures of the said structures. The sub base layer should be compacted to compressibility module of 100MPa. Calculation per m3 of incorporated material.	m3	1.88		
			TOTAL EARTH WORKS		
IV	CONCRETE WORKS				
1	Construction of base from lean concrete below the foundation slab of the canal for draining water (10 cm wider and longer on each side), with the thickness of 5 cm, from MB 15 concrete. The price also covers formwork. Calculation per m2 of the base.	m2	7.27		
2	Construction of the RC foundation slab, with the thickness of 40 cm from MB 30 concrete, with frost resistance class of M-150. Formwork should be done and foundation reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to regulations. Calculation per m3 of the foundation.	m3	59.56		

3	<p>Construction of RC foundation slabs of the inflow manhole and canal for drainage of water, with the thickness of 12 cm, from MB 30 concrete, with frost resistance class of M-150. Formwork should be done and foundation reinforced according to the design, details and static analysis. The concreting should be done over a layer of lean concrete of 5 cm. The concrete should be incorporated and cured according to regulations. The price also cover formwork. Calculation per m3 of the foundation.</p>	m3	0.77		
4	<p>Construction of RC wall, with the thickness of 25 cm at the top and 30 to 35 cm at the base, MB 30, with frost resistance class of M-150, in smooth formwork on the visible sides of the wall. Other formwork is from dressed timber. Concrating should be done in tunnel liners according to the plan of the items. Formwork should be made and the walls reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to the regulations. The price also includes the formwork with accompanying elements for stiffening and stability, and pipes,Ø100 mm, that are laid into the formwork as weep holes. Calculation per m3 of concrete.</p>	m3	56.18		
5	<p>Construction of RC walls of the inflow manhole and canals for the drainage of water, with the thickness of 12 cm, MB 30, frost resistance class of M-150, in smooth formwork on the visible (inner) side of the walls. Other formwork is from dressed timber. Formwork should be made and the walls reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to the regulations. The price also includes the formwork with accompanying elements for stiffening and stability. Calculation per m3 of concrete.</p>	m3	1.02		

6	Construction of the upper RC slab of the inflow manhole for drainage of water, with the thickness of 12 cm, MB 30, frost resistance class of M-150. Formwork should be made and the walls reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to the regulations. The price also includes the formwork with accompanying elements for stiffening and stability. Calculation per m3 of concrete.	m3	0.73		
7	Construction of the bitumenous base course from BNS32sA with the thickness of 11cm with supply, transportation and incorporation of material. Calculation per m2 of incorporated layer.	m2	46.53		
8	Incorporation of upper wearing course from asphalt concrete, with the thickness of 7 cm AB 11-S over BNS layer. Calculation per m2 of incorporated layer.	m2	46.53		
TOTAL CONCRETE WORKS					
V	REINFORCEMENT WORKS				
1	Supply, cleaning, cutting and installation of reinforcement (B 500 and MA 500/560) fully in accordance with the static analysis. Calculation per kg of reinforcement.	kg	9,297.00		
TOTAL REINFORCEMENT WORKS					
VI	MISCELLANEOUS WORKS				
1	Supply, installation and laying of non-woven geotextile TYPAR SF40 (surface mass of 136g/m2, tensile strength of 9.0 kN/m) or equivalent, around the layer of stone mound. During the execution of works fully comply with the instructions of the manufacturer of geotextile (manner of joining, size of overlap, etc.). Calculation per m2 of coated surface.	m2	484.85		
2	Supply, installation and incorporation of cast-iron shaft cover with frame, Ø600mm, into the upper slab of the inflow manhole for the load class of D400, according to EN124. Calculation per piece.	pcs	1.00		
3	Supply, installation and laying of drainage-sewerage pipes with the outer diameter of Ø200mm. Before laying, the pipe needs to be coated with geotextile. Calculation per m'.	m1	47.00		
4	Cleaning of weep holes in order to restore their function. Calculation is a lump sum.	lump sum			

5	Planting of grass and seeds on the topsoil layer, with addition of mineral fertilizer. The price includes: supply of the seeds, planting of the seeds, spading of the seeds, rolling and watering. Calculation per m2 of works and includes all works and material	m2	710.85		
6	As build design	lump sum	1.00		
TOTAL MISCELLANEOUS WORKS					

SUMMARY OF WORKS

I	PRELIMINARY AND FINISHING WORKS	
II	DEMOLITION AND DISASSEMBLING	
III	EARTH WORKS	
IV	CONCRETE WORKS	
V	REINFORCEMENT WORKS	
VI	MISCELLANEOUS WORKS	
TOTAL WORKS :		

K2

BILL OF QUANTITIES MAIN DESIGN OF LANDSLIDE REMEDY ON THE STATE ROAD OF IB CLASS NO 21 SECTION: SLATINA - VALJEVO FROM KM 2+930 TO KM 3+100					
No	Item description	Unit	Quantity	Unit price	Total
I PRELIMINARY AND FINISHING WORKS					
1	Preliminary works on the formation of the construction site, delivery of machinery and workers, clearing of the ground from shrubs, trees and vegetation, and laying of temporary traffic signalization.	lump sum	1.00		
1	Marking of the structure by placement of firm points, with wooden pegs or metal studs, and at least one point should be secured as the permanent geodetic benchmark during the entire construction (with concrete geodetic pillar with a metal plate). Permanent point must be linked to the national coordinate system. During the construction, the contractor must regularly maintain all permanent points and placed markings. The price includes surveying of the built retaining wall. Calculation is a lump sum.	lump sum	1.00		
TOTAL PRELIMINARY AND FINISHING WORKS					
II DEMOLITION AND DISASSEMBLING					
1	Demolition of massive concrete retaining walls. The price includes the transportation to a disposal at a distance of up to 25 km. Calculation per m3 of demolished wall.	m3	49.00		

2	Cutting of the pavement surfacing from asphalt concrete and bitumenous layer, with the total thickness of 18 cm. The cutting should be done parallel to the road axis following the direction of the road axis in order to get a visually acceptable line between the old and new surfacing. Calculation per m1 of cutting.	m1	174.83		
3	Demolition of the pavement surfacing from asphalt concrete and bitumenous layer, with the total thickness of 18 cm within the cut. The price includes transportation to a disposal at a distance of up to 25 km. Calculation per m2 of demolished pavement.	m2	123.04		
TOTAL DEMOLITION AND DISASSEMBLING					
III	EARTH WORKS				
1	Removal of a clay layer in a 40 cm thick layer on average from the part of the slope that belongs to the landslide. The removal is done mechanically. The price also includes transportation to a disposal at a distance of 25km. Calculation per m3 of material in compacted state.	m3	444.83		
2	Mechanical excavation of earth of 3rd category with the construction of slopes during the construction of the foundation and drain trenches. The width of the drain trenches is 1.8m. The price includes the transportation to a disposal at a distance of up to 25 km. Calculation per m3 of excavated material.				
a.	for the foundations of retaining walls and formation of stonemound behind	m3	293.90		
b.	for the formation of drain trenches	m3	1,089.16		
3	Mechanical and manual excavation of earth of 3rd category during the construction of the collection manhole for draining of water. The price includes transportation to a disposal at a distance of up to 25 km. Calculation per m3 of excavated material.	m3	96.44		
4	Construction of a sub base layer of gravel with the thickness of 10 cm below the foundation slabs of retaining walls with mechanical compacting to compaction degree of 40 Mpa measured by standard circular plate bearing test. Calculation per m3 of sub base layer.	m2	85.39		

5	Construction of a sub base layer of gravel with the thickness of 20 cm below the canals for drainage of water with mechanical compacting to compaction degree of 40 Mpa measured by standard circular plate bearing test. Calculation per m3 of incorporated material in compacted state.	m3	23.92		
6	Filling of a layer of stone chippings with the granulation of 10-60mm as protection of the drainage-sewerage pipe, in a layer with the thickness of 40 cm. Calculation per m3 of filled material.	m3	53.55		
7	Filling of drain trenches with crushed stone with the granulation of 100-250mm. Calculation per m3 of incorporated stone.	m3	912.40		
8	Filling over the foundation slab and along the wall with stone mound of the size 31.5-100 mm, in the section of the new retaining walls, between the drain trenches. The filling should be done in layers of up to 50 cm with mechanical compacting to compaction degree of 30 Mpa, measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	118.96		
9	Forming of a clay cap with the thickness of 50 cm, on a layer of stone debris during the formation of drain trenches. Calculation per m3 of incorporated clay.	m3	76.16		
10	Filling of the mixture of crushed aggregate of 16-31,5 mm and topsoil in the ratio 25:75, with the thickness of 20 cm with mechanical compacting to compaction degree of 30 Mpa, measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	222.41		
11	Filling of a topsoil layer with the thickness of 20cm over the mixture of crushed stone aggregate and topsoil. Calculation per m3 of filled material.	m3	222.41		
12	Incorporation of sandy gravel into the sub base layer of demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 37 cm. Required compressibility module is 60 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	7.62		

13	Incorporation of crushed aggregate with the grain size of 0-63 mm in the sub base layer of the demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 25 cm. Required compressibility module is 80 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	6.79		
14	Incorporation of the bearing layer of crushed stone aggregate with the grain size of 0-31.5 mm u debljini od 20 cm in the sub base layer of the demolished section of the road. Compaction should be done mechanically. The thickness of the layer is 120 MPa measured by standard circular plate bearing test. Calculation per m3 of filled material.	m3	5.43		
			TOTAL EARTH WORKS		
IV	CONCRETE WORKS				
1	Construction of base from lean concrete below the foundation slab of the retaining walls (10 cm wider and longer on each side), with the thickness of 5 cm, from MB 15 concrete. The price also covers formwork. Calculation per m2 of the base.	m2	85.39		
2	Construction of base from lean concrete below the lower slab of the canal for draining water (5 cm wider and longer on each side), with the thickness of 5 cm, from MB 15 concrete. The price also covers formwork. Calculation per m2 of the base.	m2	111.32		
3	Construction of the RC foundation slab, with the thickness of 40 cm from MB 30 concrete, with frost resistance class of M-150. Formwork should be done and foundation reinforced according to the design, details and static analysis. Concreting should be done directly on the rock. The concrete should be incorporated and cured according to regulations. The price also covers formwork. Calculation per m3 of the foundation.	m3	36.72		

4	Construction of RC foundation slabs of the collection manhole and canal for drainage of water, with the thickness of 12 cm, from MB 30 concrete, with frost resistance class of M-150. Formwork should be done and foundation reinforced according to the design, details and static analysis. The concreting should be done over a layer of lean concrete of 5 cm. The concrete should be incorporated and cured according to regulations. The price also covers formwork. Calculation per m ³ of the foundation.				
a.	thickness 12 cm	m ³	19.36		
b.	thickness 20 cm	m ³	2.52		
5	Construction of RC wall, with the thickness of 25 cm at the top and 30 to 35 cm at the base, MB 30, with frost resistance class of M-150, in smooth formwork on the visible sides of the wall. Other formwork is from dressed timber. Concreting should be done in tunnel liners according to the plan of the items. Formwork should be made and the walls reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to the regulations. The price also includes the formwork with accompanying elements for stiffening and stability, and pipes, Ø100 mm, that are laid into the formwork as weep holes. Calculation per m ³ of concrete.	m ³	24.08		
6	Construction of RC walls of the inflow manhole and canals for the drainage of water, in MB 30 concrete, frost resistance class of M-150, in smooth formwork on the visible (inner) side of the walls. Other formwork is from dressed timber. Formwork should be made and the walls reinforced according to the design, details and static analysis. The concrete should be incorporated and cured according to the regulations. The price also includes the formwork with accompanying elements for stiffening and stability. Calculation per m ³ of concrete.				
a.	thickness 12 cm	m ³	19.65		
b.	thickness 20 cm	m ³	2.47		

7	Supply and installation of prefabricated concrete grid for the canal for drainage of water, measuring b/l/d=42/30/8 cm. Calculation per m1.	m1	172.36		
8	Construction and installation of concrete cover of the collection manhole, with the thickness of 8 cm, in MB30 concrete. Calculation per m3 of concrete.	m3	0.07		
9	Construction of concrete flume of drain trenches, with the thickness of 30 cm, in MB20 concrete. Calculation per m3 of concrete.	m3	10.10		
10	Construction of the bitumenous base course from BNS32sA with the thickness of 11cm with supply, transportation and incorporation of material. Calculation per m2 of incorporated layer.	m2	27.16		
11	Incorporation of wearing course from asphalt concrete, with the thickness of 7 cm AB 11-S over BNS layer. Calculation per m2 of incorporated layer.	m2	27.16		
TOTAL CONCRETE WORKS					
V	REINFORCEMENT WORKS				
1	Supply, cleaning, cutting and installation of reinforcement (B 500 and MA 500/560) fully in accordance with the static analysis. Calculation per kg of reinforcement.	kg	11,023.00		
TOTAL REINFORCEMENT WORKS					
VI	MISCELLANEOUS WORKS				
1	Supply, installation and incorporation of geocomposite TenCate Polyfelt PEC 125 (tensile strength of 132 kN/m) or equivalent, around the stone mound of the drainage fill behind the walls and drainage trenches. During the execution of works fully comply with the instructions of the manufacturer of geotextile (manner of joining, size of overlap, etc.). Calculation per m2 of coated surface.	m2	1,742.41		
2	Supply, installation and laying of drainage-sewerage pipes with the outer diameter of Ø200mm. Calculation per m'.	m1	94.58		
3	Cleaning of weep holes in order to restore their function. Calculation is a lump sum.	lump sum	1.00		
4	Drilling of holes for the passage of drainage-sewerage pipes through the existing retaining walls. Calculation per piece.	pcs	4.00		

5	Planting of grass and seeds on the topsoil layer, with addition of mineral fertilizer. The price includes: supply of the seeds, planting of the seeds, spading of the seeds, rolling and watering. Calculation per m2 of works and includes all works and material	m2	1,112.07		
6	As build design	lump sum	1.00		
TOTAL MISCELLANEOUS WORKS					

SUMMARY OF WORKS

I	PRELIMINARY AND FINISHING WORKS				
II	DEMOLITION AND DISASSEMBLING				
III	EARTH WORKS				
IV	CONCRETE WORKS				
V	REINFORCEMENT WORKS				
VI	MISCELLANEOUS WORKS				
TOTAL WORKS DOLLARS:					

K1-K2 TEMPORARY TRAFFIC SIGNALIZATION AND ROAD FURNITURE

1	Temporary traffic signalization	lump sum	1.00		
TOTAL TEMPORARY TRAFIC SIGNALISATION FOR K1-K2:					

SUMMARY K1 AND K2

K1	from KM 2+912 to KM 2+988				
K2	from KM 2+930 to KM 3+100				
K1-K2	K1-K2 TEMPORARY TRAFFIC SIGNALIZATION AND ROAD FURNITURE				
TOTAL					

PRICED BILL OF QUANTITIES - MONTAGE OF THE SIGNBOARDS

Scetch of signboard and method statement for montage
attached

No	DESCRIPTION	UoM	Quantity	Unit Price	TOTAL USD
I	PREPARATORY WORKS				
1	Mounting and dismounting of the metal pipe scaffold, fully according to standing regulations and PP measures. The scaffold shall be structurally stable, and properly grounded. Working platforms made of 5cm boards shall be placed at 2.00m of height. From the exterior, 5cm boards shall be placed vertically as guards. The scaffold shall be used throughout the montage of the signboard and untill concrete foundation reaches 70% of its load bearing capacity. Same scaffold is to be used for montage of all signboards. Calculated per m2 of vertical projection of the assembled scaffold.	m2	5.00		
	TOTAL				
II	EARTH WORKS				
	Manual excavation of 3rd category soil for signboard foundations. The excavation shall be executed and levelled according to the design and provided elevation points. The sides shall be clean and vertically cut and the bottom levelled. Excavated soil shall be wheelbarrowed, poured and the terrain levelled or loaded onto a lorry and transported to the town landfill. Calculated per m3 of soil, measured in autochthonous state.	m3	2.00		
	TOTAL				
III	CONCRETE WORKS				
	Manufacture of the unreinforced concrete foundation mark MB20; Height of foundation is 80cm and other two dimensions 90x60cm. Concrete should be poured over the gravel layer thickness 10cm. The top surface shall be floated and the concrete shall be cured according to the regulations. Unit price shall consider gravel layer and all necessary formwork. Calculated per m3 of foundation.	m3	1.50		
	TOTAL				
IV	MONTAGE WORKS				
	Installation of steel plates for marking of donor. Table is rectangular in shape, dimensions and materialization according to the sketch, mounted on a steel substructure consisting of steel profiles 80x80x4mm, and metal sheet d = 1mm. The total height of the table is 4m, of which 80cm is anchored into the concrete, and the lower angle of table is at a height of 2.2m above ground level. Calculated per piece of installed signboard	kom	5.00		
	TOTAL				
	TOTAL MONTAGE OF SIGNBOARDS WORK				

**TOTAL SUMMARY
FOR REMEDY OF FIVE LANDSLIDES**

ON THE STATE ROADS OF IIA 141, 175 AND IB 21

In municipalities Koceljeva and Mionica

I	32 Bogdanovica Brdo - Divcibare, from km 35+880 to km 35+900, ID 3600	
II	33 Bogdanovica Brdo - Divcibare, from km 39+410 to km 39+450, ID 3601	
III	34 Bogdanovica Brdo - Divcibare, from km 30+250 to km 30+320, ID 3602	
IV	38 Ub - Koceljeva, km 40+400, ID NV3	
V	48 Koceljeva - Valjevo, km 116+950, ID 3677	
VI	MONTAGE OF THE SIGNBOARDS	
	TOTAL USD	