

Schedule of Rates - Presevo Municipality part					
ion works on the Booster Pipeline from Žujince to the Reservoir “Loši Izvori” in Preševo					
No	ITEM DESCRIPTION	UoM	Quantity	Unit Price (RSD)	Subtotal (RSD)
I PREPARATORY WORK					
1.	Prior to the beginning of construction work: refurbish the polygon grid, perform a land survey and route marking in the field, profile survey, secure checkpoints outside of profiles so that regular checks can be made during the land surveying grid construction and maintenance. General and detailed levelling exercises are planned with setting up auxiliary fixed points so as to have 250m' maximum spacing between fixed points. Land survey monitoring of all works during execution stage. Calculated per m'.	m'	6010.00		0.00
2	Clearing the terrain of debris, trees, other vegetation and obstacles along the route. Calculated per longitudinal metre of off-road route ~20%.	~m'	1202.00		0.00
3	Securing the construction site, securing pedestrian crossings over ditches and regulating traffic in sections within residential zones.	lump	1		0.00
4	Cutting grooves, demolition work, disposal and reinstatement of pavements, roads and other infrastructure, driveways etc. The price shall include all required work and equipment. Calculated per m2 and/or m³ of installed material.				
	Roads				
	AB 11s wearing course, 6cm thick	m2	1947.84		0.00
	PREPARATORY WORK SUBTOTAL:				0.00

II GROUND WORK					
1.	Combined pipeline trench excavation - 80% mechanical, 20% manual in 2nd and 3rd category soil. Excavation breakdown shall be made identical to actually performed excavations with longitudinal profiles and trench width of 1.0 m'. Soil shall be cast away to one side during excavation, not closer than 80cm away from the edge of the trench. Manual excavation shall be necessary when encountering other service lines (PTT, electrical, water supply, sewer, heating, gas). Excavation price shall include all work, material, disposal of excavated soil, excavation in wet and moist soil, excavation work with roots and trench strutting. Calculated per m3 of excavations.				
	Mechanical excavation down to 2.5m	m3	8130.1		0.00
	Manual excavation down to 2.5m	m3	2032.5		0.00
2	Combined pipeline trench excavation - 80% mechanical, 20% manual in 3rd and 4th category soil. Excavation breakdown shall be made identical to actually performed excavations with longitudinal profiles and trench width of 1.0 m'. Soil shall be cast away to one side during excavation, not closer than 80cm away from the edge of the trench. Manual excavation shall be necessary when encountering other service lines (PTT, electricity, water supply, sewer, heating, gas). Excavation price shall include all work, material, disposal of excavated soil, excavation in wet and moist soil, excavation work with roots and trench strutting. Calculated per m3 of excavations.				
	Mechanical excavation down to 2m	m3	404.1		0.00
	Manual excavation down to 2m	m3	101.0		0.00

3	<p>Manhole trench excavation shall include mechanical trench widening excavation in 2nd, 3rd and 4th category soil for unobstructed mounting of manhole concreting formwork. Excavation breakdown shall be made identical to actually performed excavations.</p> <p>Soil shall be cast away to one side during excavation, not closer than 80cm away from the edge of the trench.</p> <p>Excavation scope shall include additional excavations for sewer manholes.</p> <p>Manual excavation shall be necessary when encountering other service lines (PTT, electricity).</p> <p>Excavation price shall include all work, material, disposal of excavated soil, excavation in wet and moist soil, excavation work with roots and trench strutting. Calculated per m3 of excavations.</p>	m3	185.00		0.00
4	<p>Manual levelling of the bottom of the trench in soil with precision up to +-2cm, as per designed elevation points, complete with average excavation up to 0.05m3/m2 and disposal of excavated soil outside of the trench. Calculated per m2 of levelled surface area.</p>	m2	6565.5		0.00
5	<p>Procurement, transportation and unloading of sand on the construction site for the purpose of protecting pipes in trenches. Special care shall be taken relative to layers of sand above the pipes, fully according to trench plans and sketches. The breakdown shall include loading, transportation, unloading and all required tools and manpower. The sand shall be pored along the bottom of the trench in a 10cm layer and pipes shall be laid subsequently. Following that, all spare space around and above the pipe shall be filled with compacting (or wetting) so as to avoid settling. Calculated per m³.</p>	m3	2658.8		0.00
6	<p>The trench shall be filled to the top with selected excavated material. Selected materials shall be put in the trench and compacted in layers of 30cm up to the lower topsoil elevation point, complete with all required compacting in 30cm layers. The price shall include all required tools and manpower. Calculated per m³.</p>	m3	5771.5		0.00
7	<p>Procurement, transportation and installation of sand and gravel, 0/63 grain size, for the top layer. Selected materials shall be put in the trench and compacted in layers of 30cm up to the lower topsoil elevation point and/or road superstructure, complete with all required compacting in 30cm layers. The price shall include all required tools and manpower. Calculated per m³.</p>	m3	1,073.4		0.00
8	<p>Procurement, transportation and installation of a 20cm thick layer of humus on agricultural soil. Calculated per m3.</p>	m3	578.7		0.00

9	Loading and transportation of surplus autochthonous soil from the mechanical excavations to a dumpsite designated by the Investor, complete with rough levelling on the dumpsite. Calculated per m ³ of transported soil.	m ³	3732.2		0.00
10	Procurement, transportation, pouring and compacting natural gravel under the manhole covers in a 10cm layer. Calculated per m ³ of gravel.	m ³	10.5		0.00
GROUND WORK SUBTOTAL:					0.00
III CONCRETE WORK					
SEWER MAHNOLES FOR OUTLETS					
1	Procurement, transportation and mounting of reinforced concrete manholes composed of RC elements with MB40 waterproof concrete invert. The manhole must consist of a Ø 600/1000 cone, Ø 1000 step irons and Ø 1000 invert. Concrete surfaces must be smooth and regular. Cast iron steps protruding 15cm from the wall shall be placed along the vertical side of the mahnole and concreted into the entire wall at 30 cm apart. Calculated per m ² of mounted manholes, calculated from the cover to the bottom.	m ²	14.25		0.00
2	Procurement, transportation and mounting of a typical concrete cover ring, fully according to detail provided in the sketch. Calculated per piece of mounted ring.	pcs	5		0.00
3	Procurement, transportation and mounting of concrete slab under the bottom of the concrete manhole, dim. 1.5x1.5x0.15m MB20. Calculated per piece of mounted concrete slab.	pcs	5		0.00
WATER LINE MANHOLES					
4	Concreting the 10cm thick blinding concrete under the bottom slab of the manholes, using unreinforced MB20 concrete. Calculated per m ³ .	m ³	5.8		0.00
5	Manufacturing concrete supports in manholes using unreinforced MB30 concrete. Calculated per m ³ .	m ³	1.1		0.00
6	Manufacturing reinforced concrete manholes as per sketches using MB30 concrete in required double formwork. Upper and lower slab shall be 20 cm thick; all walls shall be 20cm thick. Calculated per m ³ .	m ³	61.6		0.00
7	Manufacturing anchor blocks in horizontal and vertical bends using unreinforced MB25 concrete. Calculated per m ³ .	m ³	40.0		0.00
CONCRETE WORK SUBTOTAL:					0.00

IV REBAR WORK					
1	Procurement, machine straightening, cutting, bending and manual mounting of B500B ribbed concrete iron rods. Calculated per kg.	kg	4694.2		0.00
2	Procurement, machine straightening, cutting, bending and manual mounting of Q mesh. Calculated per kg.	kg	2061.5		0.00
REBAR WORK SUBTOTAL:					0.00
VI LAYING PIPE UNDER THE RAILROAD					
1	Horizontal drilling with insertion of protective pipe. The price shall include machinery transportation, making of work pits with vehicle ramps, all materials, equipment and manpower. Calculated per m` of DN600 polyester protective pipe.	m`	30.00		0.00
2	Procurement, transportation and joining polyester protective pipes for the purpose of insertion under the railroad. Polyester pipe must be at least SN 20 Kn/m2 stiffness grade. The project provides for a special polyester 'jacking pipe' OD 550/484mm specifically designed for this type of work. The price shall include connectors between pipes and concreting connectors type C of nominal profile DN550, made of centrifugal cast polyester. Calculated per m`.	m`	30.00		0.00
3	Insertion of ductile pipeline with joining and locking with sliders. Procurement of pies was calculated previously and is not contained in this item. The price shall include sealing the space between the working and protective pipe in both ends. All required material and tools for this item shall also be included in the price. Calculated in lump.	lump	1.00		0.00
LAYING PIPE UNDER THE RAILROAD SUBTOTAL:					0.00

VII OTHER WORK					
1	Hydraulic testing of the water grid for test pressure according to. Calculated per m`.	m'	6010.00		0.00
2	Pipeline disinfection and flushing. Calculated per m`.	m`	6010.00		0.00
3	Procurement, transportation and laying of 25x3mm galvanized strip to detect pipeline PE. Calculated per m` of laid strip.	m`	6010.00		0.00
4	Surveying the as-built situation for the purpose of data input in the cadastre. The grid shall be surveyed and drawn with all of its facilities after work completion. Paid per m' of surveyed pipeline.	m'	6010.00		0.00
5	Discovering existing underground service lines (electricity, tt, water etc) by manual cutting of grooves in 0.40m wide and 1.0m deep lateral trenches, with average length of 2.0m and spaced at 50m along the pipeline route or in other ways by way of detectors. Calculated per piece of lateral profile.	lump	1.0		0.00
7	Developing the as-built design after the instructions from Supervision. Calculated in lump.	lump	1.0		0.00
OTHER WORK SUBTOTAL:					0.00
S U M M A R Y :					
I PREPARATORY WORK					0.00
II GROUND WORK					0.00
III CONCRETE WORK					0.00
IV REBAR WORK					0.00
VI LAYING PIPE UNDER THE RAILROAD					0.00
VII OTHER WORK					0.00
TOTAL (RSD) VAT exempt:					0.00