

BILL OF QUANTITIES

Construction of rainwater services O.Š. Stefan Nemanja, Novi Pazar

No.	DESCRIPTION	unit	quantities	unit price	total price
1	EARTH WORKS				
1	Mechanical cutting of existing concrete surfaces, 15cm thick, on the pipeline route. After the installation, testing and backfilling, the surface has to be redone as in the initial state. The unit price shall include all necessary equipment, material and work on demolition, and transport of the material to the landfill defined by the supervisory authority, not further than 5km. Calculation per m1	m1	350.0		0.0
2	Excavation of the canal trench in material III and IV, up to 2.5m depth for laying pipes and holes in the manhole, with possible withdrawal of water, with a trimming of asphalt and concrete, if necessary, with the release of the excavated earth out of the trench min.1-2m the outer edges of the trench. Calculation per m3 of excavation performed including the eventual extraction of groundwater and meteoric water as well as the canal shoring where needed.	m ³	383.0		0.0
3	Supply, transport and installation of fine river sand below, above and around tubes in a layer 10 to 10cm + D + and full profile of trench. Pay per m3 embedded sand.	m ³	119.0		0.0
4	Backfill the trench excavation, the first layer of sand to fine-healthy soil in layers 20-25cm thick. The first layer of 1.0m above the upper edge of the pipe banging manual compactor and carefully to prevent a damage to the pipes. The rest tamp mechanically until it reaches the compression of 150 kg / cm ² . Calculation per m3 of materials buried trench.	m ³	280.0		0.0
5	Loading excess soil with transport distance to 3km, unloading, spreading and planning of land by the configuration of the surrounding terrain, the landfill to determine where the supervisory authority or the competent authority. The coefficient 1,25 plus soils. Calculation per m3	m ³	103.0		0.0
Total.					0.0

II		INSTALLATION WORKS			
	Supply, transport and installation of PVC sewer pipes for rain sewage from the socket and connecting with the rubber ring, the price includes installation and fittings and sealing rubber rings. Installation pipes laid in the ground should be performed on a previously prepared a bed of fine river sand d = 10cm. will be protected with a layer of river sand 10 + D + 10cm and full profile of trench. After completed assembly and testing lines made the water permeability, the trench filled in manual compactor in layers of 20cm. If necessary, after the completion of the works, all waste and non-built material removed and lead from the construction site. Calculation per m1 of installed sewer pipes with all material and work included or per item/pcs. of the fitting elements.				
1	Sewer pipes Ø200 in all as described above.	m1	156.0		0.0
2	Sewer pipes Ø250 in all as described above.	m1	74.0		0.0
3	Sewer pipes Ø315 in all as described above.	m1	104.0		0.0
4	Diminishing pipe 315/250	pcs.	2		0.0
5	Diminishing pipe 250/200	pcs.	11		0.0
6	Diminishing pipe 200/160	pcs.	20		0.0
7	Bend 315	pcs.	6		0.0
8	Bend 250	pcs.	5		0.0
9	Bend 200	pcs.	52		0.0
10	Branch 315/250	pcs.	7		0.0
11	Branch 250/200	pcs.	9		0.0
Total.					0.0
III		OTHER WORKS			
1	Drilling the holes in the concrete pavement around the downpipes' penetrations. Dislocation of earth and charged excavation and re-manding the concrete in the penetration zone. Calculation per m2.	m ²	100.0		0.0
2	Removing the existing marble tiles used for yard paving. The tiles shall be removed in the zone of downpipes penetration and on the pipelines route, cleaned carefully lay aside and re-pave again in the cement mortar after the works are finalised. The price shall include all listed works. Calculation per m2.	m2	200.0		0.0
3	Testing of the sewerage network on water permeability. During rehearsals on water tightness network must be partially uncovered. During this time may not be any water leakage at the investigated part of the sewerage network. After successful completion of the test can be carried closing grooves and channels and backfilling trenches. Calculation per m1 successfully tested sewerage network.	m1	480.0		0.0
Total.					0.0
REKAPITULATION					
I	EARTH WORKS				0.0
II	INSTALLATION WORKS				0.0
III	OTHER WORKS				0.0
TOTAL					0.0