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Podujeva/Kosovo

CLIENT / FINANCIER:

Österreichische Kontrollbank Aktiengesellschaft

Am Hof 4
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Federal Ministry of Finance



PROJECT:

**Detail project for 4 wastewater
Collectors in the municipality
of Podujeva**



DOKUMENT:

Executive summary

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1. GENERAL DESCRIPTION

Podujevo municipality is located in the north-eastern part of Kosovo, at field of Llap. River Llap divides the municipality of Podujevo into two parts. The municipal centre of Podujevo is located almost at the centre of the territory.

Drainage basin of River Llap includes an area of 633 km². Municipality of Podujevo is in boundary with five other municipalities of the Republic of Kosovo (Prishtina, Vushtrri, Kastrio, Mitrovica and Leposavic) and on the north-eastern part it is in the boundary with Serbia.

The municipality consists of the town of Podujevo and 78 villages. Batlava lake belongs also to the municipality of Podujevë.

In Podujevo municipality the number of residents has increased significantly since 1948 when there were 43.783 inhabitants. Nowadays it is estimated that the municipality has 88.499 inhabitants

Almost half of Podujevo population belongs to the age group of 0-19 years, while the group age over 65 years have a small participation with only 4% of the total population.

In general Podujevo municipality is characterized with a large number of family members which is characteristic for underdeveloped regions and predominantly rural, where the average size of the family size is 6.5 members.

2. CURRENT SITUATION OF SEWAGE

The existing system of sewage network in the municipality of Podujevo was built during years 1950 - 1970 together with the water supply system.

According to the municipal data around 80 % of Podujevo municipality is connected to the sewage network and the whole wastewater discharge is done into the River Llap without any prior treatment which results in a high environmental pollution.

Therefor the goal of the project is to collect wastewater between the different settlements of the municipality of Podujeva in a main wastewater collector for discharge in one location where in the future the wastewater treatment plant should be built.

3. SCOPE OF WORK

Result of the proposed service is on the one hand a detailed project, which can be used for gaining the necessary local permissions. And on the other hand the project should be the basis for the BOQ of the Softloan application.

The following steps have been performed through elaboration of the project:

Local site inspection to define the route of the collectors

Preliminary design of the pipeline route

Geodetical survey of the route

Correction of the proposed route after implementing the geodetical survey

Elaboration of site plan and longitudinal sections

Elaboration of the technical details (Manholes, trench, valves, river crossings, Street crossings, etc)

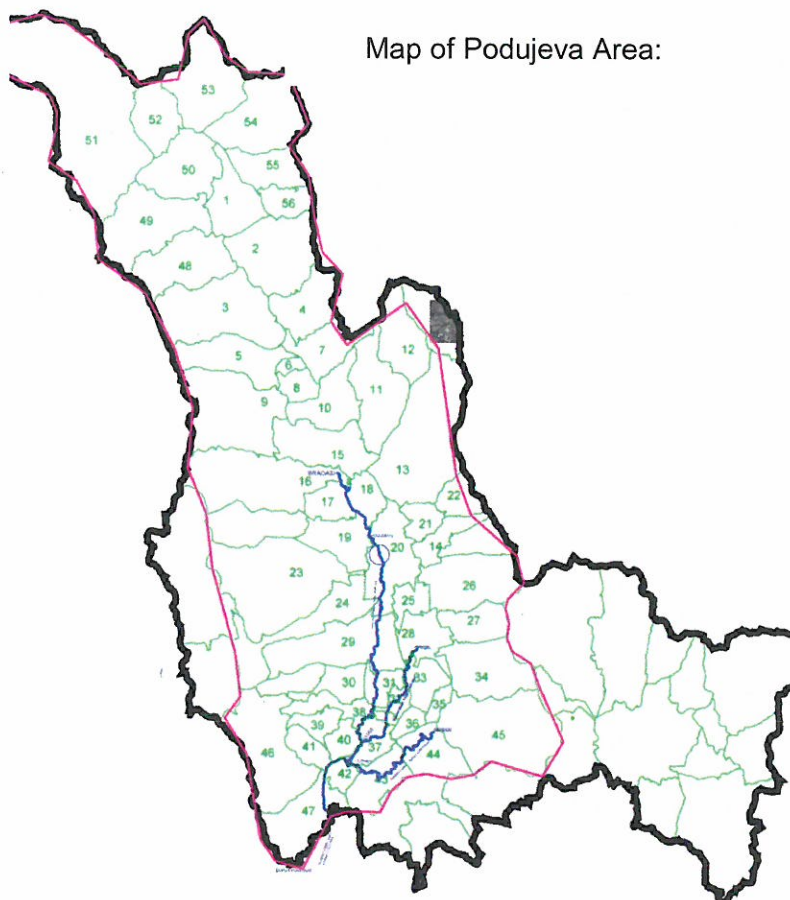
Hydraulic Calculation of the system

Technical report of the project

Cost estimation of the project

In total about 37 km of pipelines have been designed with lengths and diameters as shown in the table below:

Table of collectors			
No.	Segment	Length [m]	Diameter [mm]
S1	Bradash	580,00	500
S2	Bradash-Peran	1.520,00	600
S3	Peran-Llapashticë	5.300,00	800
S4	Llapashticë-Lluzhan	8.930,00	900
S5	Liuzhan-Lluq I postëm	6.512,00	1000
S6	Gërdoc-Lluzhan	4.962,00	500
S7	Sfeqel-Lluzhan	4.374,00	500
S8	Podujeva-Llapashticë	1.800,00	500
S9	Lupq-Lluzhan	3.185,00	500
Total length		37.163,00	



Additionally to improve the environmental situation, and, as the construction of a state of the art wastewater treatment plant will take some more years, a mechanical pre- treatment with a 5mm fine screen has been designed to eliminate at least sold particles in the wastewater before discharging t to the river.

4. SUMMARY

The municipality of Podujevo has done the first steps for improving the wastewater system in the whole municipal area by starting the designing process for the main collectors in the municipality. On finishing the softloan preparatory project for these main wastewater collectors the basic design work for the future realisation of the project is done.

The next step is now to start construction works for this project to improve the environmental situation of the municipality. The municipality has decided to apply for means of the Austrian Softloan program to finance the realisation of the project.

Parallel as one main step which has to follow as quick as possible the design of the wastewater treatment plant should follow, so that as soon as possible the wastewater will not be discharged to the river without cleaning anymore.