

# PROJECT INFORMATION FORM - WATER

## Part A – General Information

<b>Country</b>	Croatia	<b>Sector</b>	Water
<b>Project Submission Date</b>	September 8, 2005	<b>Project Code (filled by the REC)</b>	
<b>Project Title</b>	Upgrade of wastewater treatment plant in the town Bjelovar, Croatia		

### A-1 Information about Foreseen Implementing Agency

A-1.1	Name KOMUNALAC d.o.o.	A-1.2	Address KRSTE FRANKOPANA 24 43000 BJELOVAR
A-1.3	Phones +385 043 622100 +385 043 237611	A-1.4	Faxes +385 043 622122
A-1.5	Emails mihael.krmpotic@komunalac-bj.hr	A-1.6	Person responsible for contacts Mihael Krmpotić, dipl.ing.
A-1.7	Name and function of person responsible for overall project implementation Ivan Ivančić, dipl.oec.	A-1.8	Legal status of the implementing agency N/A
A-1.9	Institutions/firms jointly implementing the project(if any) KOMUNALAC d.o.o., the town of Bjelovar and Croatian Waters	A-1.10	What is the division of responsibilities (if joint implementation) N/A

### A-2 Strategic Context

<i>VH- very high; H- high; M- medium; L- low; VL- very low; N- none (mark where appropriate)</i>	VH	H	M	L	VL	N
A-2.1 What priority is allocated to the indicated sector on country level?	<b>X</b>					
A-2.2 Does an up-to-date country strategy in this sector exist?	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>			
A-2.3 If yes, is the proposed project included in this strategy? How?	N/A					
A-2.4 What priority is allocated to project (idea) on a country level?	<b>X</b>					
A-2.5 What is the project (idea) priority from the cross border impact point of view?  N/A	<b>X</b>					
A-2.6 What is the project (idea) priority from the local point of view?	<b>X</b>					
A-2.7 What is the project (idea) priority from the human health protection point of view?  N/A		<b>X</b>				
A-2.8 What is the project (idea) priority from the country economy point of view?  N/A						
A-2.9 What is the project (idea) priority from addressing an environmental threat of regional importance?	<b>X</b>					
A-2.10 Is the project linked to the EU <i>acquis</i> ? If yes, which EU directive?	YES, 2000/60/EC					



A-3 Information about the Project						
<b>A-3.1 Short description of the environmental problem</b>						
<p>WWTP in Bjelovar exists, however upgrade is needed:</p> <ul style="list-style-type: none"> <li>• input suction pump worn-out</li> <li>• old mechanical parts of the unit (coarse and fine grating)</li> <li>• the 2<sup>nd</sup> phase of biological filter of wastewater treatment plant unfinished (it does not eliminate phosphorus and nitrogen)</li> <li>• sludge coming from the plant is placed into two holes excavated in the ground, with volume of 18.000m<sup>3</sup> each), which is not in compliance with the regulations on environmental protection.</li> </ul>						
<b>A-3.2 Origins and positive environmental impact of the project</b>						
A-3.2.1 Project justification		Release of purified wastewater into the natural non-stagnant water - protection of environment				
A-3.2.2 Project objectives		Reaching the effluent quality according to the conditions stipulated in the water permit				
A-3.2.3 Project components (phases)		<ul style="list-style-type: none"> <li>• planning</li> <li>• plant construction</li> <li>• construction of sludge lagoons</li> </ul>				
A-3.2.4 Expected positive environmental effects		<ul style="list-style-type: none"> <li>• reducing the pollution pressure on the recipient natural non-stagnant water</li> <li>• sludge management</li> </ul>				
A-3.2.5 Health impact of the project		<ul style="list-style-type: none"> <li>• reduction of bad odors</li> <li>• reducing of number of insects</li> <li>• prevention of pollution of natural non-stagnant waters and subterranean waters</li> </ul>				
A-3.2.6 Size of population benefiting from the project implementation		98.000 ES				
A-3.2.7 Scale of impact of the project		Regional	Country	Cross border	(County)	Local
					<b>X</b>	<b>X</b>
<b>A-3.3 Project status</b>				Performance [%]	Start [MM/YY]	End [MM/YY]
A-3.3.1	Pre-feasibility study				2002.	2005.
A-3.3.2	Feasibility study				-	-
A-3.3.3	Detailed engineering designs				-	-
A-3.3.4	EIA				-	-
A-3.3.5	Permits				-	-
A-3.3.6	Financing				-	-
A-3.3.7	Procurements				-	-
A-3.3.8	Construction				-	-
A-3.3.9	Operation (for existing projects)				-	-

A-3.3.10

Description of critical factors affecting project implementation:

- Defined location (by means of fully-built plant and network),
- Qualified personnel with years of work experience,
- A consensus reached on the issue of technical solution to the problem,
- Insufficient financial funds necessary for realisation of the project

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## Part B – Technical and Environmental Information on Project

### B-1 Project type

B-1.1	Project type Wastewater treatment plant	
B-1.2	Technical description Purifying wastewater using membrane technology	
B-1.3	Project location(s) (exact address) Veliko Koreново bb, 43000 Bjelovar, Croatia	
B-1.4	Location from the environmental impact point of view ( <i>mark where appropriate</i> )	
	Hot spots	
	Downtown area and/or specially protected areas	
	Other densely populated areas	
	Loosely populated areas	<b>X</b>

### B-2 Status of the ownership title to land and buildings (*mark where appropriate*)

B-2.1	Settled	<b>X</b>
B-2.2	Not settled	
B-2.3	Under settlement (describe status)	

### B-3 Category of a technological solution proposed (*mark where appropriate*)

B-3.1	Modern	<b>X</b>
B-3.2	Modern, not widely implemented	
B-3.3	Traditional	
B-3.4	Old	

### B-4 Pressure on environment

	Type of result	Unit	Before project	After project
B-4.1	Population served (water supply)	[-]	N/A	N/A
B-4.2	Quality of drinking water (or equivalent according to local law)	[-]	N/A	N/A
B-4.3	Population served (wastewater)	[-]	20.000	40.000
B-4.4	WWTP capacity	m <sup>3</sup> /d	11.200	16.800
B-4.5	Collected wastewater	m <sup>3</sup> /d	11.200	16.800
B-4.6	Treated wastewater	m <sup>3</sup> /d	11.200	16.800
B-4.7	Avg. BOD <sub>5</sub> ( <sup>(c)</sup> permitted = <u>25</u> )	mg/l	60	25
B-4.8	Avg. COD <sub>5</sub> ( <sup>(c)</sup> permitted = <u>125</u> )	mg/l	140	125
B-4.9	Avg. Suspension ( <sup>(c)</sup> permitted = <u>35</u> )	mg/l	80	35
B-4.10	Avg. N <sub>total</sub> ( <sup>(c)</sup> permitted = <u>15</u> )	mg/l	31	15
B-4.11	Avg. P <sub>total</sub> ( <sup>(c)</sup> permitted = <u>2</u> )	mg/l	5	2
B-4.12	Sludge amount after the stabilization and drainage	m <sup>3</sup> /a	N/A	N/A
B-4.13	Environmental waste and sludge management	tons/a	N/A	N/A

### B-5 Stakeholders opinion (*mark where appropriate*)

B-5.1	Positive attitude of authorities, local population and NGOs	<b>X</b>
B-5.2	Positive attitude of authorities, public protests	
B-5.3	Public opinion not informed	
B-5.4	Project known, attitudes neutral	
B-5.5	Negative attitude of authorities, local population and NGOs	
B-5.6	Opinions not known	



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## Part C – Financial Information

<b>C-1 Total investment costs [-€]</b>	<b>6,100.000 EUR</b>
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<b>C-2 Operating costs and revenues due to project implementation [-€]</b>		
	Before project	After project
Total operating costs	N/A	N/A
Total operating revenues	N/A	N/A

<b>C-3 Financing sources</b>		[-€]		<b>Total</b>	
		<b>Secured</b>	<b>Needed</b>	€	%
C-3.1	Own sources <b>FUTURE PROFIT</b>		1,500.000	1,500.000	24,59
C-3.2	Grants (source: <b>CROATIAN WATERS</b> )		3,050.000	3,050.000	50
C-3.3	Loans (source: N/A)	N/A	1,550.000	1,550.000	25,41
C-3.4	Private sector (source: N/A)	N/A	N/A	N/A	N/A
C-3.5	Other (please specify) (source: )	N/A	N/A	N/A	N/A
C-3.6	Total		6,100.000	6,100.000	100

### C-4 Need for financing

C-4.1	<b>Technical Assistance:</b> <ul style="list-style-type: none"> <li>describe the technical assistance needed</li> <li>give the estimated cost</li> </ul>	
C-4.2	<b>Investment co-financing:</b> <ul style="list-style-type: none"> <li>describe the elements for which grant financing is needed</li> <li>give the amount of grant needed</li> </ul>	<ul style="list-style-type: none"> <li>Expected co-financing from Croatian Waters (one of the shareholders)</li> <li>3,050.000 EUR, securing this grant amount depends on the annual plans of Croatian waters.</li> </ul>
C-4.3	<b>Loan financing:</b> <ul style="list-style-type: none"> <li>specify the capital investment elements for which loan financing is sought</li> <li>give the amount of loan needed</li> </ul>	1,550.000 EUR
C-4.4	<b>Describe the implementation schedule by years</b>	2006.-2012. 7X270.000EUR= 1.900.000 EUR 2013-2016. 4X 1.050.000 EUR=4.200.000 EUR TOTAL: 6.100.000 EUR

### C-5 If the loan is foreseen, please provide information indicated below

C-5.1	Who will be the borrower?	THE TOWN OF BJELOVAR OR OF THE TOWN PUBLIC UTILITY COMPANY
C-5.2	Who will guarantee the loan (if relevant)?	THE TOWN OF BJELOVAR
C-5.3	Describe the borrower: <ul style="list-style-type: none"> <li>key activities,</li> <li>current tariffs structure,</li> <li>plans for tariffs increase,</li> <li>accounts for the previous 2 years and budget for next year</li> </ul>	N/A

C- 5.5. Affordability forecast

Upon defining the financial construction - very affordable