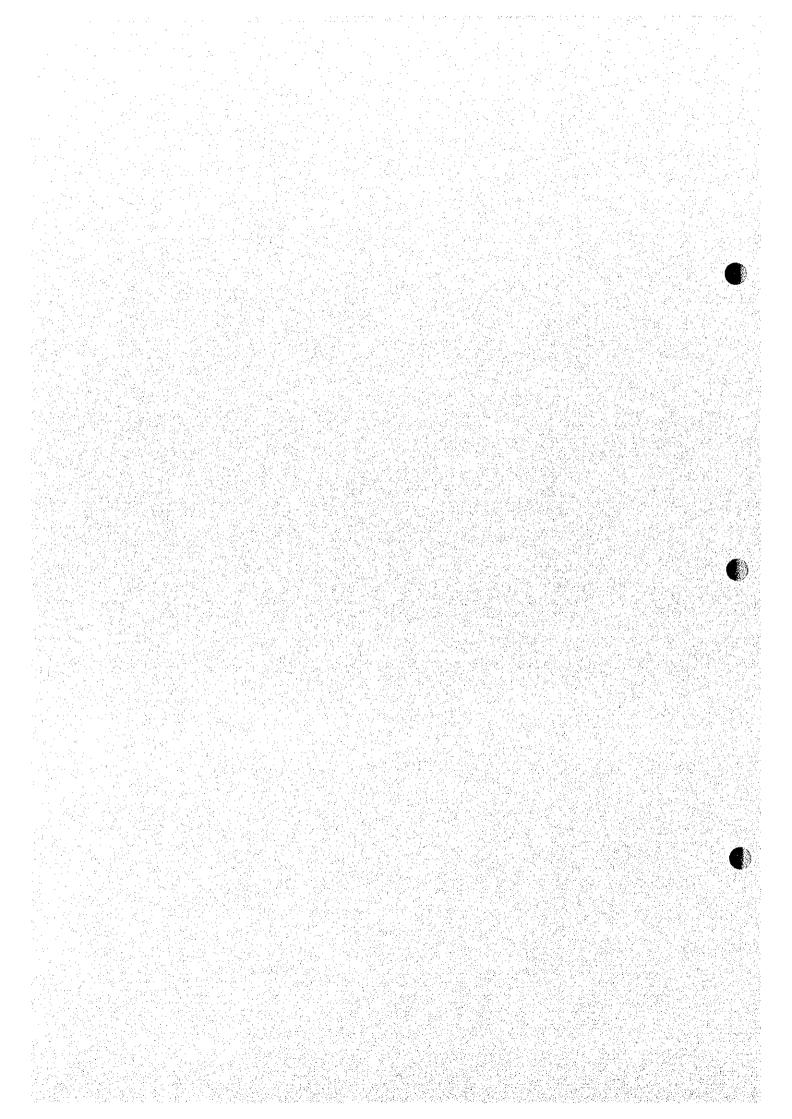
## Annex 12

Financial and Economic Analyses

(Rural Water Supply Project)



	·					ply Projec		· · · · · · · · · · · · · · · · · · ·	·
	COST	Work qua		Unit			out	Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (USS)	(MKD.mil.)	(US\$10 <sup>3</sup>
1. Direc	ct construction cost			<u> </u>					
1.1 Civil	work								
1.1.1	Main construction works								
(1) S	pring intake	47	ļ	1				34.68	
(2) V	Vell Vell	9	1	ļ				18.97	
	liver intake	0	ŀ					0,00	
	Main pipeline(225 or 125 mm in diameter)	235	km					355.50	
	econdary pipeline(75 mm in diameter)	101	km	İ		}		64.80	
	Reservoir	0						49.90	
	Filter station	و ا						15.30	
(//:	Sub-total (Civil work cost)						!	539.15	
(Incl	uding electrical work and			ĺ.					}
	nechanical work)	Ì	١	ì					
	total (Direct construction cost)		1					539.15	10,36
Suo-	total (Direct construction cost)	1						3372	10,50
2. Indii	rect cost (50% of Direct construction cos	.\							5,18
Z. Hilli	uding land acquisition and compensation,	기 engineering	fee	ŀ			1		
			j 100,						
aam	inistration cost and physical/price continge	i l			l .			ļ	
	1004		1					1	ļ
	ual O/M cost		1	ŀ			1		23
	Salary for workers								6
	Electricity								10
	Maintenance cost						}		ł .
Sub-	-total			ĺ			1	1	39
						ļ			i
4 Rep	lacement	1		1			1	l	
(1)	Well pump							3.79	1
Sub	-total		ŀ		•			1	1 7
					ŀ		i		
nancial co		·							15,5
conomic c	ost (90% of financial cost) 909	6	1					1	1
	Investment cost	1		1					13,99
(2)	O&M cost	1.				1	1		3:
	Replacement cost							[	(
Tota	-			ļ				<u> </u>	14,4
onditions:		,		( Ian 15 1	999 hv The	National B	ank)		
					,,, 0,		,		
a. Exc	hage rate: US\$1.0= MKD5	-		•					
a. Exc				Quantity	Τ			Total	amount
a. Exc	BENEFIT	Unit rate		Quantity (m3/year)				Total	
	BENEFIT Item			-					
inancial b	BENEFIT  Item enefit (revenue)	Unit rate		-					
inancial b	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo)	Unit rate (MKD/m³	)	(m3/year)	4				(US\$10
inancial b	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 361	Unit rate (MKD/m³		(m3/year)	1			(MKD.mil.)	(US\$10
inancial b 1 Wai 1.1 Dor	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3612 (increase of current tariff (%)):50	Unit rate (MKD/m³	)	(m3/year)	1			(MKD.mil.)	(US\$10
inancial b 1 Wa 1.1 Dor	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50	Unit rate (MKD/m³	)	(m3/year)	1			(MKD.mil.)	1,1
inancial b 1 War 1.1 Dor 2 Hea 2.1 Sali	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work	Unit rate (MKD/m³	)	(m3/year)	4			(MKD.mil.)	1,1
inancial b 1 Wai 1.1 Dor 2 Hea 2.1 Sala	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases	Unit rate (MKD/m³	)	(m3/year)	4			(MKD.mil.)	1,1
inancial b 1 Wai 1.1 Dor 2 Hea 2.1 Sala	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work	Unit rate (MKD/m³	)	(m3/year)	4			(MKD.mil.)	1,1
inancial b 1 Wai 1.1 Dor 2 Hea 2.1 Sala	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases	Unit rate (MKD/m³	)	(m3/year)	4			60 0	1,1
inancial b 1 Wai 1.1 Dor 2 Hea 2.1 Sala	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases	Unit rate (MKD/m³	)	(m3/year)	4			(MKD.mil.)	1,1
inancial b 1 War 1.1 Dor 2 Hea 2.1 Sal due 3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax	Unit rate (MKD/m³	)	(m3/year)	1			60 0	1,1
inancial b  1 Wa' 1.1 Dor  2 Hea 2.1 Saladue 3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit)	Unit rate (MKD/m³	)	(m3/year)	1			60 0	1,1
inancial b  1 Wai 1.1 Dor  2 Hea 2.1 Saladue 3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) tter charge (CE Tetovo)	Unit rate (MKII/m³	0.25	(m3/year)				(MKD.mil.) 60 0	1,1
inancial b  1 Wa  1.1 Dor  2 Hea  2.1 Sala due  3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit)	Unit rate (MKD/m³	0.25	(m3/year)				60 0	1,1
inancial b  1 Wai 1.1 Dor  2 Hea 2.1 Saladue 3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) tter charge (CE Tetovo)	Unit rate (MKII/m³ ) 18	) 3 0.25	(m3/year) 3,296,95				(MKD.mil.) 60 0 0 60	1,1
inancial b  1 Wai 1.1 Dor  2 Hea 2.1 Sala due 3 Neg  conomic 1 Wa 1.1 Dor  2 Hea	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 361: (increase of current tariff (%)): 50  lith ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water	Unit rate (MKIVin³)	) 3 0.25	(m3/year) 3,296,95				(MKD.mil.) 60 0	1,1
inancial b  1 Wal 1.1 Dor  2 Hea 2.1 Sala due 3 Neg  iconomic 1 Wa 1.1 Dor  2 Hea 2.2 Sala 2 Neg  iconomic 2 Hea 3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water alth ary instead of no work	Unit rate (MKII/m³ ) 18	) 0.25 6 (day)	(m3/year) 3,296,954				(MKD.mil.) 60 0 60 54	1,1
inancial b  1 Wa  1.1 Dor  2 Hee  2.1 Sala due  3 Neg  cconomic  1 Wa  1.1 Dor  2 Hee  2.1 Sal	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 ulth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water	Unit rate (MKII/m³  18  (MKIXI/m³  18	) 0.25	(m3/year) 3,296,954 3,296,95				(MKD.mil.) 60 0 0 60	1,1 1,1 1,0
inancial b  1 Wai 1.1 Dor  2 Hea 2.1 Saladue 3 Neg  conomic 1 Wa 1.1 Do 2 Hea 2.1 Sal	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water alth ary instead of no work gative income tax	Unit rate (MKD/m³ ) 18 (MKD/day) 500 (MKD/mont)	) 0.25	(m3/year) 3,296,954 3,296,95				(MKD.mil.) 60 0 60 54	1,1 1,1 1,2
inancial b  1 Wa  1.1 Dor  2 Hea  2.1 Saladue  3 Neg  conomic  1 Wa  1.1 Dor  2 Hea  3 Neg  conomic  1 Wa  1.1 Dor  2 Hea  3 Neg  1.1 Dor  3 Neg	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water alth ary instead of no work gative income tax	Unit rate (MKD/m³ ) 18 (MKD/day) 500 (MKD/mont)	) 0.25	(m3/year) 3,296,954 3,296,95				(MKD.mil.) 60 0 0 60 54 2	1,1 1,1 1,0
inancial b  1 Wa  1.1 Dor  2 Hea  2.1 Sala due  3 Neg  conomic  1 Wa  1.1 Dec  2.1 Sala 3 Neg  Tot	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) ter charge (CE Tetovo) mestic water alth ary instead of no work gative income tax	Unit rate (MKD/m³  18  (MKD/day) (MKD/day) 200	) 0.25	(m3/year) 3,296,954 3,296,95				(MKD.mil.) 60 0 0 60 54 2	1,1 1,1 1,2
inancial b  1 Wa  1.1 Dor  2 Hea  2.1 Sala due  3 Neg  conomic  1 Wa  1.1 Dec  2.1 Sala 3 Neg  Tot	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) tter charge (CE Tetovo) mestic water alth ary instead of no work gative income tax  tal  DF FINANCIAL/ECONOMIC EVALUAT.	Unit rate (MKD/m³  18  (MKD/m³  200	0.25 6 (day) 1 (month)	(m3/year) 3,296,954 3,296,95	4	13 04	4 ×10³1199	(MKD.mil.) 60 0 0 60 54 2 78 134	1,1 1,1 1,2
inancial b  1 Wa  1.1 Dor  2 Hea  2.1 Sala due  3 Neg  conomic  1 Wa  1.1 Dec  2.1 Sala 3 Neg  Tot	BENEFIT  Item enefit (revenue) ter charge (CE Tetovo) mestic water 3613 (increase of current tariff (%)): 50 alth ary instead of no work to water-borne diseases gative income tax  benefit (90% of financial benefit) tter charge (CE Tetovo) mestic water alth ary instead of no work gative income tax  tal  DF FINANCIAL/ECONOMIC EVALUAT.	Unit rate (MKD/m³  18  18  (MKD/m³  20  (MKD/monit rate) (MKD/monit rate) (MKD/monit rate) (MKD/monit rate) (MKD/monit rate)	0.25 6 (day) 1 (month)	(m3/year) 3,296,954 3,296,95			4 ×10³US\$	(MKD.mil.) 60 0 0 60 54 2 78 134	1,1 1,1 1,2

	Name of Project: Treska Ri							<del></del>	
	COST	Work que		Unit			out	Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (USS)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(US\$103)
1.	Direct construction cost							<u> </u>	
1.1	Civil work								
	1.1.1 Main construction works		·				1		
	(1) Spring intake	70						34.47	
	(2) Well	8	'				}	21.68	
	(3) River intake	2						0.49	
	(4) Main pipeline	360	km			l		493.00	
	(5) Secondary pipeline	81	km	ļ			<b>!</b> .	64.80	
	(6) Reservoir	27		İ				39.30	
	(7) Filter station	10				1		16.34	
	Sub-total (Civil work cost)							670.08	
	(Including electrical work and				Ì				
	mechanical work)		1	ŀ					
	Sub-total (Direct construction cost)			l			į	670.08	12,886
	,		ĺ		ļ				
2.	Indirect cost (50% of Direct construction cost)					İ	]		6,443
	(including land acquisition and compensation, en		fee,						
	administration cost and physical/price contingen	cies)	ĺ			1			
	garanti da da da da da da da da da da da da da								
3	Annual O/M cost					ļ			
•	(1) Salary for workers			i '		1			289
	(2) Electricity		Ì				İ		78
	(3) Maintenance cost						1 .		129
	Sub-total		1		1		i		496
	Sub-total		l		[.				
	Davisanment		1		İ				
4	Replacement							4.34	83
	(1) Well pump						1		83
	Sub-total	i					1		] ~~
					1	1			19,329
	cial cost mic cost (90% of financial cost) 90%	<del></del>		<u> </u>		<del></del>	+		12,223
conc						'	1		17,396
	(1) Investment cost		1						446
	(2) O&M cost	i		1					75
	(3) Replacement cost Total	ļ	1	· .		ì	1 :		17,918
		<u> </u>		- L	<del>'</del>				
	itions: Exchage rate : US\$1.0= MKD52.			( Jan.15, 1	999 by The	National E	lank)		
									-
	BENEFIT	Unit rate		Quantity	1				amount (US\$10 <sup>3</sup> )
	Item	(MKD/m <sup>3</sup>	)	(m³/year)	<b>_</b>			(MKD.mil.)	(US\$10
inan	cial benefit (revenue)	1		1.					
1	Water charge (CE Tetovo)							٠,	40
l.	1 Domestic water 15288	18	3	1,395,030	)			25	48
	(increase of current tariff (%)):50							1	ļ
2	Health	1							1
•	1 Salary instead of no work			1	1			0	. '
2								1	
2.	due to water-borne diseases								
3	due to water-borne diseases Negative income tax								
							•	0	1
								0 25	1
3	Negative income tax  Total							,	1
3 Econ	Negative income tax  Total  comic benefit (90% of financial benefit)							,	1
3 Econ	Negative income tax  Total  tomic benefit (90% of financial benefit)  Water charge (CE Tetovo)							25	48
3 Econ 1	Negative income tax  Total  tomic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1 Domestic water	1.		1,395,03	0			,	48
3 Econ 1 1 2	Negative income tax  Total  tomic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1 Domestic water  Health	(MIKD/day)	(day)		0			25	48
3 Econ 1 1 2	Negative income tax  Total  To	(MIKD/day) 50	(day)	7	0			25	48
3 Econ 1 1 2	Negative income tax  Total  tomic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1 Domestic water  Health  1 Salary instead of no work	(MIKD/day) 50 (MIKD/mon	(day) () : (b) (mon	7 th)	0			25	43
3 Econ 1 1 2 2	Negative income tax  Total  To	(MIKD/day) 50	(day) () : (day)	7 th)	0			25 23 1	48 43 1 63
3 Econ 1 1 2 2	Negative income tax  Total  To	(MIKD/day) 50 (MIKD/mon	(day) () : (b) (mon	7 th)	0			25	48 43 1 63
3 3 1 1 2 2 3	Negative income tax  Total  nomic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1. Domestic water  Health  1. Salary instead of no work  Negative income tax  Total	(MKD/day) 50 (MKD/mon 20	(day) () : (b) (mon	7 th)	0			25 23 1	48 43 1 63
3 1 1 2 2 3	Negative income tax  Total  Tomic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 11 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATION	(MKD/day) 50 (MKD/mon 20	(day) 0 (th) (moni 0 1	7 th)		-10.30	Trojus I	25 23 1 33 57	48 43 1 63
3 3 1 1 2 2 3	Negative income tax  Total	(MKD/day) 50 (MKD/mon 20 20 ON 1 ×10 <sup>3</sup> US	(day) 0 (th) (moni 0 1	7 th)	B-C		01 ×10³US	25 23 1 33 57	48 43 1 63
3 3 1 1 2 2 3	Negative income tax  Total  Tomic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 11 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATION	(MKD/day) 50 (MKD/mon 20 20 ON 1 ×10 <sup>3</sup> US	(day) 0 (th) (moni 0 1	7 th)		2.0.5		25 23 1 33 57	48 43 1 63

	Name of Project: Regional	l Water Su	ipply	Project "Pet	rovec"				
	COST	Work qua	ntity	Unit	orice	Am	out	Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (USS)	D/C (MKD)	F/C (USS)	(MKD.mil.)	(US\$10 <sup>3</sup> )
1.	Direct construction cost								
1.1	Civil work					<u> </u>			
	1.1.1 Main construction works							[ ]	
	(1) Spring intake	0				ļ		0.00	
	(2) Well	3						8.13	
	(3) River intake	0						0,00	
	(4) Main pipeline (280mm)	6	km					17.10	
	(5) Secondary pipeline (75mm)	26	km					20.80	
	(6) Reservoir (1000, 500m <sup>3</sup> )	3		,				22.70	
	(7) Filter station (300m³/hr)	1						30,00	
	Sub-total (Civil work cost)							98.73	
	(Including electrical work and								
	mechanical work)								
	Sub-total (Direct construction cost)		ļ	Ì				98.73	1,899
		1					İ		
2.	Indirect cost (50% of Direct construction cost	)	1						949
	(including land acquisition and compensation,	engineering	fee,						
	administration cost and physical/price continge			i					
			į						
3	Annual O/M cost	1	1					1	
	(1) Salary for workers		1	[					115
	(2) Electricity	İ				1			5.5
	(3) Maintenance cost	ľ		İ		ŀ	1		19
	Sub-total		İ					1	189
			1		l			1	
4	Replacement					1			
•	(1) Weli pump			l				1.63	3
				İ					3
	•			]					
	ial cost		<u> </u>						2,84
сопо	mic cost (90% of financial cost) 90%	6				1		]	2.54
	(1) Investment cost		1			ŀ			2,56
	(2) O&M cost								170
	(3) Replacement cost		1				ŀ		23
	Total		Щ.	<u> </u>	<u> </u>	<u> </u>	J	<u> </u>	2,76
Condit									
<b>a</b> .	Exchage rate: US\$1.0= MKD52	2.		( Jan.15, 199	9 by The Na	itional Bank	)		
	BENEFIT	Unit rate		Quantity					amount
	Item	(MKD/m³)		(m³/year)				(MKD.mil.)	(US\$10 <sup>3</sup>
	cial benefit (revenue)	ĺ							
	Water charge (CE Tetovo)	7 18		568,214				10	19
1.1	Domestic water 6,22	./  10		308,214	]			1	''
_	(increase of current tariff (%)):50	1							1
2	Health			1	1			0	ļ
2.1	Salary instead of no work due to water-borne diseases			ŀ				1 *	}
3	Negative income tax							i	1
3	Negative income tax			1				0	
	Total							10	19
	- <del> </del>								
Econo	omic benefit (90% of financial benefit)	1			1			1	
1	Water charge (CE Tetovo)								
	1 Domestic water	16		568,214				9	17
2	Health	(MKD/day)			· ·				
	1 Salary instead of no work	500						0	
3	Negative income tax	(MKD/mouth							
,	- refusit a manning say,	200		1	1			13	25
	Total	230	-~					23	44
	en <del>en som</del> Grand de la companya de la companya de la companya de la companya de la companya de la companya de la companya d				<u> </u>				
	ILT OF FINANCIAL/ECONOMIC EVALUATI			····			_		
RESU							7 .		
RESU		2 x10³US\$	;		B-C		x103US\$		
RESU	B-C: -2,74 B/C: 0.4		•		B/C	: 1.13	3		
RESU			<b>;</b>			: 1.13			

COST					<del></del>			
	Work qua		Unit		Am			mount
Item	Amount	Unit	D/C (MKD)	F/C (USS)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(US\$10 <sup>3</sup>
1. Direct construction cost	1							
1.1 Civil work								
1.1.1 Main construction works		1	İ		i			
(1) Spring intake	49		!				30.72	
(2) Well	. 19				1		51.49	
(3) River intake	0	1					0.00	
(4) Main pipeline	290	km	ł I		<b>!</b>		353.50	
• • • • • • • • • • • • • • • • • • • •	143	km	1				103.20	
(5) Secondary pipeline		Kill	l				66.40	
(6) Reservoir	43		ļ		1			
(7) Filter station	19						33.12	
Sub-total (Civil work cost)		i			ŀ		638.43	
(Including electrical work and					ļ		ļ. :	
mechanical work)	1		İ					ļ ·
Sub-total (Direct construction cost)							638.43	12,27
,					1			]
2. Indirect cost (50% of Direct construction cost	J	1	1					6,13
(including land acquisition and compensation,		fee		4			}	-,
(including fand acquisition and compensation, o	ugmeering	icc,	ŀ					İ
administration cost and physical/price continge	ncies)		ļ		1		l	
		İ	į		1		i	
3 Annual O/M cost		1						
(1) Salary for workers	1	1		1			1	56
(2) Electricity	1	ŀ	i		1			29
(3) Maintenance cost	[	i		i	ļ		1	13
Sub-total	1			ŀ	1	l		9:
Sub-total	j	1						
	1		ĺ			ļ	1	
4 Replacement		١.					1000	
(1) Well pump			1			1	10.30	19
Sub-total		1			1			11
				İ		i		
nancial cost	1	l				l		18,4
conomic cost (90% of financial cost) 90%	6						T	
(1) Investment cost	j ,	1			1	1		16,5
(2) O&M cost							1	8
(3) Replacement cost	1	١.		İ		İ		. 1
Total		l		1				17,6
1000	1	٠	<del>. L</del>	<u> </u>	<del>1</del>	1	٠	1
onditions:								
a. Exchage rate: US\$1.0= MKD52			( Jan.15, 1	999 by The	National B	unk)		
· · · · · · · · · · · · · · · · · · ·								
BENEFIT	Unit rate		Quantity	1		-	Total	amount
			Quantity (m³/year)				Total (MKD.mil.)	·
BENEFIT Item	Unit rate		⊣ ⁻₋ `			-		·
BENEFIT  Item  inancial benefit (revenue)	Unit rate		⊣ ⁻₋ `					·
BENEFIT Item inancial benefit (revenue) 1 Water charge (CE Tetovo)	Unit rate (MKD/m³	)	(m³/year)				(MKD.mil.)	(US\$10
BENEFIT Item inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106	Unit rate (MKD/m³	)	⊣ ⁻₋ `					(US\$10
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50	Unit rate (MKD/m³	)	(m³/year)	5	· · · · ·		(MKD.mil.)	(US\$10
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health	Unit rate (MKD/m³	)	(m³/year)	5			(MKD.mil.)	9
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work	Unit rate (MKD/m³	)	(m³/year)	5			(MKD.mil.)	9
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health	Unit rate (MKD/m³	)	(m³/year)	5			(MKD.mil.)	9
BENEFIT  Item inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106 (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work	Unit rate (MKD/m³	)	(m³/year)	5			(MKD.mil.)	9
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases	Unit rate (MKD/m³	)	(m³/year)	5			(MKD.mil.)	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases	Unit rate (MKD/m³	)	(m³/year)	5			52 0	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax	Unit rate (MKD/m³	)	(m³/year)	5			52 0	9
BENEFIT  Item  mancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total	Unit rate (MKD/m³	)	(m³/year)	5			52 0	9
BENEFIT  Item  Inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)	Unit rate (MKD/m³	)	(m³/year)	5			52 0	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106	Unit rate (MKD/m³		(m³/year) 2,834,95:				(MKD.mil.) 52 0 0 52	9
BENEFIT  Item  Inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water	Unit rate (MKD/m³ 8 18	5	(m³/year)				52 0	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health	Unit rate (MKD/m³ 8 18	) (day)	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52	9
BENEFIT  Item  Inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water	Unit rate (MKD/m³ 8 18	) (day)	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52	9
BENEFIT  Item  Inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work	Unit rate (MKD/m³ 8 18	) (day)	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52	9
BENEFIT  Item  Inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work	Unit rate (MKD/m³ 8 18	) (day) ) 7	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52	9
BENEFIT  Item  inancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work  3 Negative income tax	Unit rate (MKD/m³ 8 18	) (day) ) 7	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52 46 1	9 9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work	Unit rate (MKD/m³ 8 18	) (day) ) 7	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52 46	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work  3 Negative income tax  Total	Unit rate (MKD/m³ 8 18 (MKD/day) 500 (MKD/mond/200	) (day) ) 7	(m³/year) 2,834,95				(MKD.mil.) 52 0 0 52 46 1	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax  Total  ESULT OF FINANCIAL/ECONOMIC EVALUATION  TOTAL	Unit rate (MKD/m³ 8 18 (MKD/day) 500 (MKD/mond) 200	) (day) 7 (day	(m³/year) 2,834,95	5			(MKD.mil.) 52 0 0 52 46 1 67 115	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work  3 Negative income tax  Total  ESULT OF FINANCIAL/ECONOMIC EVALUATI  B-C: -17,78	Unit rate (MKD/m³ 8 18 (MKD/day) 500 (MKD/mond 200 ON 9 x10³US	) (day) 7 (day	(m³/year) 2,834,95	5	: 93	2 ×10³US\$	(MKD.mil.) 52 0 0 52 46 1 67 115	9
BENEFIT  Item  nancial benefit (revenue)  1 Water charge (CE Tetovo)  1.1 Domestic water 3106  (increase of current tariff (%)): 50  2 Health  2.1 Salary instead of no work due to water-borne diseases  3 Negative income tax  Total  conomic benefit (90% of financial benefit)  1 Water charge (CE Tetovo)  1.1 Domestic water  2 Health  2.1 Salary instead of no work  3 Negative income tax  Total  ESULT OF FINANCIAL/ECONOMIC EVALUATI	Unit rate (MKD/m³ 8 18 (MKD/day) 500 (MKD/mond 200 ON 9 x10³US	) (day) 7 (day	(m³/year) 2,834,95	5			(MKD.mil.) 52 0 0 52 46 1 67 115	(USS)

	lanka & F	≤umaı	novo Circl	e Rural W	ater Supp	ly Project	t	
COST	Work qua	រោប់ty	Unit	price	Am	out	Total a	
Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(US\$10 <sup>3</sup> )
Direct construction cost								
1.1 Civil work	[							
1.1.1 Main construction works	. '							
(1) Spring intake	96						53.04	
(2) Well	20						54.20	
(3) River intake	0						0.00	
(4) Main pipeline	495	km	:				669.00	
(5) Secondary pipeline	174	km					124.80	
(6) Reservoir	52						76.90	
(7) Filter station	20						36.86	
Sub-total (Civil work cost)							1,014.80	
(Including electrical work and		1			}			
mechanical work)		1			ł			
Sub-total (Direct construction cost)							1,014.80	19,515
Sub-total (Effect Constituenon Cost)		,					ļ <sup>*</sup>	
2. Indirect cost (50% of Direct construction cost	1							9,758
(including land acquisition and compensation, e	/ •naineerin:	a fee						,
administration cost and physical/price continger	uvies)	1						
administration cost and physical price continger	l	1						
3 Annual O/M cost	1							
	1				ļ			599
(1) Salary for workers								312
(2) Electricity				1				19:
(3) Maintenance cost								1,100
Sub-total			l					1,100
			[					
4 Replacement		1					10.04	20
(1) Well pump		ł				} .	10.84	20
Sub-total		İ			ļ	1		20:
		1			ļ		1	20.02
nancial cost		—	ļ	<del> </del> -	ļ	<u> </u>	ļ	29,27
conomic cost (90% of financial cost) 90%	4			ļ	1	1		26,340
(1) Investment cost		1						996
(2) O&M cost								18
(3) Replacement cost	.[	1		1				27,52
Total	┸	Д	<u>l</u>	1	<u> </u>	<u> </u>	L	21,32
onditions: a Exchage rate : US\$1.0= MKD52			( Jan 15 1	999 hu The	National B	ank)		
a. Exchage rate: US\$1.0= MKD52			( 3011.15, 1	222 OJ 1110	Tracional E			
BENEFIT	Unit rate		Quantity		, , , , , , , , , , , , , , , , , , , ,			amount
Item	(MKD/m³)	)	(m³/year)	<u> </u>			(MKD.mil.)	(US\$10 <sup>3</sup>
inancial benefit (revenue)	T		1	1				
1 Water charge (CE Tetovo)				1				<b>!</b>
t trave charge (CD Televie)	1.							
1.1 Domestic water 3477	1 18		3,172,854	•			58	1,10
	1 18		3,172,85	1			58	1,10
1.1 Domestic water 3477	1 18		3,172,854	1			58	
1.1 Domestic water 3477 (increase of current tariff (%)): 50  2 Health	1 18		3,172,854	4		·	58	
1.1 Domestic water 3477 (increase of current tariff (%)) : 50	1 18		3,172,854					
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases	1 18		3,172,854	4		·		
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work	1 18		3,172,854	4				
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases	1 18		3,172,854	4			0	
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax	1 18		3,172,854	4			0	
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total	1 18		3,172,854	4			0	
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total	1 18	· · · · · · · · · · · · · · · · · · ·	3,172,854	4			0	
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo)							0	1,10
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water	16		3,172,85				0 58	1,10
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health	16 (MKD/day)	(day)	3,172,85				0 58	1,10
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work	16 (MKD/day) 500	(day) 7	3,172,85				0 58	1,10
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health	16 (MKD/day) 500 (MKD/mont	(day) 7 h) (month	3,172,85				0 58 52 2	1,10
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax	16 (MKD/day) 500	(day) 7 h) (month	3,172,85				0 58 52 2 75	1,10 99 3 1,44
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work	16 (MKD/day) 500 (MKD/mont	(day) 7 h) (month	3,172,85				0 58 52 2	1,10 99 3 1,44
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax  Total	16 (MKD/day) 500 (MKD/mond 200	(day) 7 h) (month	3,172,85				0 58 52 2 75	1,10 99 3 1,44
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax  Total  RESULT OF FINANCIAL/ECONOMIC EVALUAT	16 (MKD/day) 500 (MKD/mond 200	(day) ) 7 h) (month	3,172,85	4		0 ×1031155	0 58 52 2 75 129	1,10 99 3 1,44
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax  Total  RESULT OF FINANCIAL/ECONOMIC EVALUAT  B-C: -27,21	16 (MKD/day) 500 (MKD/moed 200 TON 0 x10 <sup>3</sup> US	(day) ) 7 h) (month	3,172,85	B-C		0 ×10 <sup>3</sup> US\$	0 58 52 2 75 129	1,10 99 3 1,44
1.1 Domestic water (increase of current tariff (%)): 50  2 Health 2.1 Salary instead of no work due to water-borne diseases 3 Negative income tax  Total  Conomic benefit (90% of financial benefit) 1 Water charge (CE Tetovo) 1.1 Domestic water 2 Health 2.1 Salary instead of no work 3 Negative income tax  Total  RESULT OF FINANCIAL/ECONOMIC EVALUAT	16 (MKD/day) 500 (MKD/moed 200 TON 0 x10 <sup>3</sup> US	(day) ) 7 h) (month	3,172,85	4	0.8		0 58 52 2 75 129	1,10 99 3

		Bregalnic		~~~~					· · · · · · · · · · · · · · · · · · ·	
	COST		Work qua		Unit		Am D/C (MKD)	out F/C (US\$)	Total a	mount (US\$10 <sup>3</sup> )
	ltem		Amount	Unit	D/C (MKD)	F/C (USS)	D/C (MKD)	F/C (US\$)	(MKD.mst.)	(05510)
	Direct construction cost									
	Civil work									,
	1.1.1 Main construction works	-	139						53.91	
	(1) Spring intake								18.97	
	(2) Well		7						0.00	
	(3) River intake	j	0						832.00	
	(4) Main pipeline	-	700	km					76.80	
	(5) Secondary pipeline		102	km			1		41.30	
	(6) Reservoir		32				ŀ		1 1	
į	(7) Filter station		7				İ		11.47	
	Sub-total (Civil work cost)								1,034.45	
į	(Including electrical work and									
	mechanical work)								1 024 45	19,893
	Sub-total (Direct construction cost)					Į			1,034.45	19,693
_	- 1000 C D									9,947
	Indirect cost (50% of Direct constru			١						2,247
	(including land acquisition and comp			iee,						
	administration cost and physical/pric	e contingen	cies)							
	Annual O/M cost									207
	(1) Salary for workers			'				i	1	207
	(2) Electricity	j		1	i					108
	(3) Maintenance cost									216
	Sub-total									531
	•						İ			
4	Replacement						1			
	(1) Well pump			İ	1		1		3.79	73
	Sub-total									73
							1		Ì	
	ial cost			ļ	ļ	<u> </u>	<u> </u>	<del></del>	ļ	29,840
conor	nic cost (90% of financial cost)	90%								76 956
	(1) Investment cost			1						26,856
	(2) O&M cost							1		478
	(3) Replacement cost						1			27,400
<u> </u>	Total		<u> </u>		<u> </u>	<u> </u>		<u></u>		27,400
Condit	-						N1.41 1 Po	1_3		
a.	Exchage rate: US\$1.0=	MKD52			( Jan. 15, 1	AAA oA Tue	National B	ank)		
	BENEFIT		Unit rate		Quantity				Total	amount
	Item		(MKD/m <sup>3</sup>	)	(m³/year)			1.24	(MKD.mil.)	(US\$10 <sup>3</sup> )
inanc	ial benefit (revenue)									<b>!</b>
1	Water charge (CE Tetovo)									
1.1	Domestic water	12258	18	:	1,118,54	3			20	391
	(increase of current tariff (%))	: 50								
2	Health		1							1
2.1	Salary instead of no work		l						0	0
	due to water-borne diseases									
	due to mater como disenses		1						1 '	1
3	Negative income tax									
3									0	
3									0 20	
3	Negative income tax								1	
	Negative income tax  Total  mic benefit (90% of financial benefit	·)						·	1	
	Negative income tax  Total	)						· · · · · · · · · · · · · · · · · · ·	20	391
Econo	Negative income tax  Total  mic benefit (90% of financial benefit	·)	16	<u> </u>	1,118,54	3			1	391
Econo	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)	)	16 (MKD/day)		1,118,54	13			20	391
Econo 1 1.1	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health	)		(day)		13,			20	391
Econo 1 1.1	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health I Salary instead of no work	)	(MKD/day)	(day) ) 7		13			18	391
Econo 1 1.1 2 2.1	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health	)	(MKD/day) 500	(day) ) 7 h) (month	) )	13			18	391 352
1 1.1 2 2.1	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health I Salary instead of no work	)	(MKD/day) 500 (MKD/mont	(day) ) 7 h) (month	) )	13.			18	352 1 500
1 1.1 2 2.1	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health  Salary instead of no work Negative income tax  Total		(MKD/day) 500 (MKD/mont 200	(day) ) 7 h) (month	) )	3			18 18	391 352 11
Econo 1 1.1 2 2.1 3	Negative income tax  Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health  Salary instead of no work Negative income tax	VALUATIO	(MKD/day) 500 (MKD/mous 200	(day) 7 h) (mondi 0 12	) )				18 1 26 45	391 352 11
Econo 1 1.1 2 2.1 3	Total  mic benefit (90% of financial benefit Water charge (CE Tetovo)  Domestic water Health  Salary instead of no work Negative income tax  Total  JLT OF FINANCIAL/ECONOMIC E B-C	VALUATIO : 28,45	(MKD/day) 500 (MKD/mont 200	(day) 7 h) (mondi 0 12	) )	вс		58 ×10 <sup>3</sup> US	18 1 26 45	391 352 11
1 1.1 2 2.1	Total  mic benefit (90% of financial benefit Water charge (CE Tetovo) Domestic water Health Salary instead of no work Negative income tax  Total	VALUATIO : 28,45	(MKD/day) 500 (MKD/mont 200  DN 4 ×10 <sup>3</sup> US	(day) 7 h) (mondi 0 12	) )		: 0.3		18 1 26 45	391 352 11

		a Circle R	ural	Water Supp	oly Projec	t			**************************************
	COST	Work qua		Unity			out	Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(US\$10 <sup>3</sup> )
1.	Direct construction cost								
1.1	Civil work	l .							
	1.1.1 Main construction works								
	(1) Spring intake	105		1				44.38	
	(2) Well	50				!		124.66	
	(3) River intake	1						0.26	
	(4) Main pipeline	525	1					682.50	
	(5) Secondary pipeline	168	km			l		132.00	
	(6) Reservoir	55						71.20	
	(7) Filter station	51				i	<b>!</b>	69.72	
	Sub-total (Civil work cost)						]	1,124.71	
	(Including electrical work and		1					[ :	
	mechanical work)								
	Sub-total (Direct construction cost)			1		ļ		1,124.71	21,629
			1					]	
2.	Indirect cost (50% of Direct construction cost								10,815
	(including land acquisition and compensation, or	engineering	tee,						
	administration cost and physical/price continge	ncies)		1					
3	Annual O/M cost ·		1		1		ŀ		
	(1) Salary for workers				1	ŀ	1		796
	(2) Electricity					Î	ŀ		1,52
	(3) Maintenance cost				ļ		1		210
	Sub-total			1	i				2,530
					i			1	
4	Replacement		Ì						
	(1) Well pump								
	Sub-total	1						24.93	479
		1			İ				]
inanc	cial cost			i				<u> </u>	32,44
cono	mic cost (90% of financial cost) 90%	6	T	Ţ					
	(1) Investment cost		1						29,19
	(2) O&M cost	1	1		1				2,28
	(3) Replacement cost						į		43:
	Total			<u> </u>	<u> </u>	<u> </u>	<u> L</u>	<u> </u>	31,91
`ondi	tions:								
	Exchage rate : US\$1.0= MKD52	2.		( Jan.15, 19	999 by The	National B	ank)		
	BENEFIT	Unit rate		Quantity	1		<del>.</del>	Total	amount
	Item	(MKD/m <sup>3</sup>		(m³/year)				(MKD.mil.)	(US\$10 <sup>3</sup>
Finan	cial benefit (revenue)	1	-						
1	Water charge (CE Tetovo)							1	
	Domestic water 2121	1 18	}	1,935,504	4			35	67
-	(increase of current tariff (%)):50	į							
2	Health	ı							
	l Salary instead of no work	ŀ			1			0	
-	due to water-borne diseases				1				1
3	Negative income tax								
	11054117 111701117			1				0	1
								35	67
		1			1				1
Econe	omic benefit (90% of financial benefit)			<del>                                     </del>					T
l	Water charge (CE Tetovo)			1 .					1
_	1 Domestic water	10	5	1,935,50	4			32	60
2	Health	(MIKD/day)			1				1
		500		,				ı	1
	1 Salary instead of no work	(MKD/mont		i i	1			1	1
3	Negative income tax	200		- 1	1			46	88
	m	200	<i>y</i> 1.	-				78	1
	Total							<b>'</b>	1 ',''
	JLT OF FINANCIAL/ECONOMIC EVALUATI	ION				·····		<u> </u>	
RFSI			e		B-C	-32.40	9 x10³US	:	
RESU	R.C _48 &	44 X IU US	3						
RESU	B-C : -48,8- B/C : 0.1		•		B/C				
RESU	B/C : 0.1		3			: 0.3			

	<del>-</del>			Project "M					
	COST	Work qua		Unit			FIG (LICE)	Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(US\$10 <sup>3</sup> )
1.	Direct construction cost			:		l	1		
1.1	Civil work								
	1.1.1 Main construction works							.	
	(1) Spring intake					İ			
	(2) Well					<u> </u>			
	(3) River intake					}			
	(4) Main pipeline (200mm)	15	km	1					
	(5) Secondary pipeline (150mm)	1	km					1 [	
	(6) Reservoir	ĺ	1						
	(7) Filter station		ļ			ļ		1 i	
	Sub-total (Civil work cost)							104.00	
	Suo-total (Civil work cost)	ŀ						''''	
	(Including electrical work and								
	mechanical work)		]				· ·	104.00	2,000
	Sub-total (Direct construction cost)	j	١.					104.00	2,000
							]		
2.	Indirect cost (50% of Direct construction cost)	ł		1					1,000
	(including land acquisition and compensation, e		fee,			ļ	· ·		
	administration cost and physical/price continger	icies)				.			
3	Annual O/M cost								
-	(1) Salary for workers			1			İ	ŀ	
	(2) Electricity		1						
	(3) Maintenance cost	1							
	Sub-total	1							20
	Sub-total		1			1			
	Replacement		1			İ			
4	•	ł			ł			0.00	
	(1) Well pump	1						0.00	0
							l		
								j	2 000
	cial cost	ļ			ļ	<del> </del>	<u> </u>	ļ	3,000
cono	mic cost (90% of financial cost) 90%	1		ŀ					2 200
	(1) Investment cost								2,700
	(2) O&M cost							3 6	18
	(3) Replacement cost		1	}	Ì		. [	1 1	0
	Total	1	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>	2,718
ondi	tions:								
	Exchage rate : US\$1.0= MKD52			(Jan.15, 1	999 by The	National B	ank)		
·	Divingo tato : Operio	•					,		
	BENEFIT	Unit rate		Quantity		-		Total	amount
	Item	(MKD/m³		(m³/year)				(MKD.mil.)	(US\$16 <sup>3</sup> )
inan	cial benefit (revenue)	(1/112/111	<u>′</u>	\_\ <u>\\\</u>	<del>                                     </del>			<del> </del>	, ,
1	Water charge (CE Tetovo)				ļ			i	
	1 Domestic water 2,35:	2 18	,	214,620	را		•	4	75
1.		<sup>د</sup> ا ا	,	214,02	ኘ			1	/ ·
_	(increase of current tariff (%)):50	1		1					
2	Health	ĺ		1	1			0	
2,	l Salary instead of no work	1		ı					١ '
	due to water-borne diseases	1							
3	Negative income tax	1		1					1 .
	•	-						0	. (
		1						4	75
				1					ļ
con	omic benefit (90% of financial benefit)							1	
ı	Water charge (CE Tetovo)	1							ĺ
	1 Domestic water	16	5	214,620			•	4	6
2	Health	(MKD/day)		1				1	1
	1 Salary instead of no work	500		,				l 0	
4		1		· [				"	i 1
2	Negative income tax	(MKD/mont		1				5	9
3		200	0 12	1	1			9	
3	· •				1			9	. 16
3	Total			1	ı				
				<del></del>					
	ULT OF FINANCIAL/ECONOMIC EVALUATION			<del></del>	-	14			. :
	ULT OF FINANCIAL/ECONOMIC EVALUATION B-C : -2,34	6 x103US	\$ .	<del>-  </del>	B-C	: -82	28 ×10³US	;	: :
	ULT OF FINANCIAL/ECONOMIC EVALUATION	6 x103US	\$	·	B-C B/C				. :
	ULT OF FINANCIAL/ECONOMIC EVALUATION B-C : -2,34	6 x103US	\$			: 0.7		}	

	COST	Work qua		Unit		1	out	Total	mount
	Item				F/C (USS)	D/C (MKD)		(MKD.mil.)	(US\$10
		Amount	Unit	D/C (MKD)	F/C (USS)	D/C (MKD)	F/C (USS)	(MKD.nur.)	(03310
1.	Direct construction cost		1						
ì,	Civil work								
	1.1,1 Main construction works				Į	'			
	(1) Spring intake	68	1 1		•	1		29.30	
	(2) Well	26	li		-			70.46	
	(3) River intake	0						0,00	
	(4) Main pipeline	340	km			1		442.00	
	(5) Secondary pipeline	114	km					91.20	
	(6) Reservoir	38	l '''''					61.30	
	(7) Filter station	26			Ì	ļ		46,25	
	Sub-total (Civil work cost)				<u> </u>			740,52	
					1			, 10122	
	(Including electrical work and								
	mechanical work)		i i				1	240.50	140
	Sub-total (Direct construction cost)							740.52	14,2
			1		}	Ì	ŀ	1	2.1
2.	Indirect cost (50% of Direct construction cost)		l_	-					7,13
	(including land acquisition and compensation, er	igineering	fee,		1		•		
	administration cost and physical/price contingen	cies)			1				
			1						
3	Annual O/M cost		l - I		į				
_	(1) Salary for workers		1 1					ļ	7
	(2) Electricity		ll		1			1	4
	(3) Maintenance cost								1
	Sub-total		1 1		ŀ				1,3
	200-total								1,-
			1 1	-				Į.	
4	Replacement		l i					14.09	١,
	(1) Well pump							14.09	2
	Sub-total		1 1					1	2
									Í
nar	icial cost				<u> </u>	1		↓	21,3
con	omic cost (90% of financial cost) 90%		1 i						ļ
	(1) Investment cost		, ,		1		}	}	19,2
	(2) O&M cost				1		1	1	1,1
	(3) Replacement cost		] 1						2
	Total				1		1		20,6
	litions:			/* 1 <i>2</i> 10/	M. T. M.	1 D 1	s .		
	a. Exchage rate: US\$1.0= MKD52.			(Jan.15, 195	99 by The Na	itional Bank	)		
_								1	
	BENEFIT	Unit rate		Quantity					amount
	Item	(MKD/m <sup>3</sup> )		(m³/year)	ļ			(MKD.mil.)	(US\$1
	ncial benefit (revenue)				1 .				1
nai								1	1
naı 1	Water charge (CE Tetovo)								
1,	Water charge (CE Tetovo)  1 Domestic water 29,371	18		2,680,104		٠		49	9
1,	.1 Domestic water 29,371	18		2,680,104				49	9
1	.1 Domestic water 29,371 (increase of current tariff (%)): 50	18		2,680,104				49	
1 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health	18		2,680,104				49	
1 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work	18		2,680,104					
1 2 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases	18		2,680,104					
1 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases	18		2,680,104				0	
1 2 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases	18		2,680,104				0	
1 2 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases	18		2,680,104				0	
1. 1 2 2	.1 Domestic water 29,371 (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax	18		2,680,104				0	
1 2 2 3 cor	.1 Domestic water 29,371	18		2,680,104				0	
1 2 2 3 3 cor 1	.1 Domestic water 29,371							0 49	(
1 2 2 3 3 cor 1	.1 Domestic water 29,371	18		2,680,104 2,680,104				0	(
1 2 2 3 3 cor 1 1	.1 Domestic water 29,371							0 49	(
1 2 2 3 3 cor 1 1 2	.1 Domestic water 29,371	16	(đay)					0 49	
1 2 2 3 3 Cor 1 1 2 2 2	.1 Domestic water 29,371	16 (MSCD/day) 500	(day) 7					0 49	5
1 2 2 3 cor 1 1 2 2	.1 Domestic water (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work	16 (MKD/day) 500 (MKD/month	(day) 7					0 49	\$
1 2 2 3 3 Corr 1 1 2 2 2	(increase of current tariff (%)): 50  Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work Negative income tax	16 (MSCD/day) 500	(day) 7					0 49 44 1 63	1,7
1 2 2 3 3 Corr 1 1 2 2 2	.1 Domestic water 29,371	16 (MKD/day) 500 (MKD/month	(day) 7					0 49 44	1,7
1 2 2 3 corr 1 1 2 2 3	.1 Domestic water (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work Negative income tax  Total		(day) 7					0 49 44 1 63	1,3
1 2 2 3 3 Cor 1 2 2 3 3	.1 Domestic water (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATION	16 (MSD/day) 500 (MSD/month 200	(day) 7 3) (month)					0 49 44 1 63 109	1,7
1 2 2 3 1 1 2 2 3	.1 Domestic water (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATIO B-C: -24,138	16 (MCD/day) 500 (MCD/month 200	(day) 7 3) (month)		B-C		9 ×10³US\$	0 49 44 1 63 109	1,
1 2 2 3 1 1 2 2 3	.1 Domestic water (increase of current tariff (%)): 50 Health .1 Salary instead of no work due to water-borne diseases Negative income tax  nomic benefit (90% of financial benefit) Water charge (CE Tetovo) .1 Domestic water Health .1 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATIO B-C: -24,138 B/C: 0.30	16 (MCD/day) 500 (MCD/month 200	(day) 7 3) (month)		B-C	0.82		0 49 44 1 63 109	1,

		t Mounta							
	COST	Work qua		Unit		D/C (MKD)	F/C (US\$)	Total ar	nount (US\$10 <sup>3</sup> )
	Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (US\$)	(MKD.mil.)	(05\$10)
	Direct construction cost							ł	
1.1	Civil work					i			
	1.1.1 Main construction works							12,60	
	(1) Spring intake	29				1		8.13	
	(2) Well	3				ĺ	Ì	0.15	
	(3) Lake intake	1							
	(4) Main pipeline	145	km		İ	1		188,50	
	(5) Secondary pipeline	39	km			ļ		31.20	•
	(6) Reservoir	13	. '					15.40	
	(7) Filter station	4			ļ		1	5,54	
	Sub-total (Civil work cost)				ĺ		İ	261,62	
	(Including electrical work and		İ					] . [	
	mechanical work)					'		061.60	- 001
	Sub-total (Direct construction cost)							261.62	5,031
			ŀ				i		
2.	Indirect cost (50% of Direct construction cost)							. 1	2,516
	(including land acquisition and compensation, en	ngineering	fee,				1		
	administration cost and physical/price contingen	cies)	1	<u> </u>					
				İ				1 1	
3	Annual O/M cost				1			ļ. ļ	
	(1) Salary for workers		1			•			114
	(2) Electricity			į				1	- 5:
	(3) Maintenance cost		•		1		1		51
	Sub-total						1		21
			1	ł	]	1			
4	Replacement				1				
•	(1) Well pump				ł			1.63	. 3
	(1) Hamp			ì					3
	*			ļ					
	cial cost	<u></u>	ļ	ļ	ļ	ļ	<del></del>	-	7,54
conc	mic cost (90% of financial cost) 90%	1		1					6,79
	(i) Investment cost						1		1 -
	(2) O&M cost							100	19
	(3) Replacement cost						.		7,01
	Total	<u> </u>		i	<u> </u>	<u>.l</u>		1	7,01
	itions:			( Ion 15 1	000 by The	National E	lank).		
а	Exchage rate: US\$1.0= MKD52	•		( Jan. 13, 1	999 UY 1110	: Mational L	Mark)		
	BENEFIT	Unit rate		Quantity	1		:		amount
	Item	(MKD/m <sup>3</sup>	)	(m³/year)	·			(MKD.mil.)	(US\$10
inan	cial benefit (revenue)				1				
1	Water charge (CE Tetovo)								1 .
1.	1 Domestic water 2,855	3 18		260,336	7			5	۶
	(increase of current tariff (%)) : 50						•		ł
2	Health								Į.
2.	1 Salary instead of no work							0	ł
	due to water-borne diseases				1			1 .	
	Negative income tax	1		ł					
3	Megative income tax							0	1
3	Negative income tax	ļ		1				5	!
3	negative income tax								
	÷								ļ
	omic benefit (90% of financial benefit)								<u> </u>
	÷								
Econ 1	omic benefit (90% of financial benefit)	10		260,33	6			4	
Econ 1	omic benefit (90% of financial benefit) Water charge (CE Tetovo)	16 (MKD/day)			6				
Econ 1 1	omic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1 Domestic water	1	(day)		6			4	
Econ 1 1	omic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 1 Salary instead of no work	(MKD/day)	(روطه) (	7	6				
1 1 2 2	omic benefit (90% of financial benefit)  Water charge (CE Tetovo)  1 Domestic water  Health	(MKD/day) 500	(day) ) h) (mont	7 b)	6				
1 1 2 2	omic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 1 Salary instead of no work	(MKD/day) 500 (MKD/mont	(day) ) h) (mont	7 b)	5			0	1
1 1 2 2 3	omic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 1 Salary instead of no work Negative income tax Total	(MKD/day) 500 (MKD/mont 200	(day) ) h) (mont	7 b)	6			0	1
1 1 2 2 3	omic benefit (90% of financial benefit) Water charge (CE Tetovo) 1 Domestic water Health 1 Salary instead of no work Negative income tax Total ULT OF FINANCIAL/ECONOMIC EVALUATION	(MKD/day) 500 (MKD/mont) 200	(day) ) th) (mont	7 b)			<b>J</b>	0 6 11	1
1 1 2 2 3	omic benefit (90% of financial benefit) Water charge (CE Tetovo)  1 Domestic water Health 1 Salary instead of no work Negative income tax  Total  ULT OF FINANCIAL/ECONOMIC EVALUATION B-C: -9,08	(MKD/day) 500 (MKD/mont 200  ON 4 x10 <sup>3</sup> US	(day) ) th) (mont	7 b)	B-C		18 ×10 <sup>3</sup> US	0 6 11	1
1 1 2 2 3	omic benefit (90% of financial benefit) Water charge (CE Tetovo) 1 Domestic water Health 1 Salary instead of no work Negative income tax Total ULT OF FINANCIAL/ECONOMIC EVALUATION	(MKD/day) 500 (MKD/mont 200  ON 4 x10 <sup>3</sup> US	(day) ) th) (mont	7 b)		: 0.1		0 6 11	1

	· .	de Rural	Water	Supply Ext	ension/Imp	provement	Project		
	COST	Work qua	ıntity	Unit p	orice	Am		Total a	
	Item	Amount	Unit	D/C (MKD)	F/C (US\$)	D/C (MKD)	F/C (USS)	(MKD.mil.)	(US\$10 <sup>3</sup> )
1.	Direct construction cost							1	
1.1	Civil work					1			
	1.1.1 Main construction works					1		00.06	
	(1) Spring intake			- 1				90.86	
	(2) Well		,					114.25	
	(3) River intake							0.31	
	(4) Main pipeline							1,244.96	
	(5) Secondary pipeline							213.53	
	(6) Reservoir					1		130.73	
	(7) Filter station		'					72.72	
	Sub-total (Civil work cost)							1,867.36	
	(Including electrical work and								
	mechanical work)								
	Sub-total (Direct construction cost)					İ	}	1,867.36	35,91
2.	Indirect cost (50% of Direct construction cost)		l, ,					1	17,95
	(including land acquisition and compensation, e		fee,					1	
	administration cost and physical/price contingen	cies)							
								1	
3	Annual O/M cost ·		1			1	.		
	(1) Salary for workers								1,34
	(2) Electricity								65.
	(3) Maintenance cost						1	1	36
	Sub-total	ļ							2,36
	•						ŀ		
4	Replacement								
	(1) Well pump	1						22.85	43
	Sub-total								43
	cial cost								53,86
Econo	mic cost (90% of financial cost) 90%	1	1	[					
	(1) Investment cost				i		ĺ		48,48
	(2) O&M cost			-	<u> </u>		ļ		2,13
	(3) Replacement cost			ļ		ļ	1		39
	Total		<u>L.</u> .		<u> </u>	<u> </u>	<u> </u>	L	51,00
Condi	tions:								
	Exchage rate: US\$1.0= MKD52.			( Jan.15, 199	9 by The Na	tional Bank	)		
	BENEFIT	Unit rate		Quantity				Total	amount
	Item	(MKD/m³)	,	(m³/year)				(MKD.mil.)	(USS10
Finan	cial benefit (revenue)		•						
1	Water charge (CE Tetovo)			1					
1.	1 Domestic water 90,000	18		8,212,500				149	2,87
	(increase of current tariff (%)) : 50								
2	Health								
	1 Salary instead of no work				1			0	
•	due to water-borne diseases								
.3	Negative income tax				1				i
~	<u> </u>				1			0	
	Total							149	2,87
F					ļ			-	ļ
MCODO	omic benefit (90% of financial benefit)								
_	Water charge (CE Tetovo)			0.010.000				134	2,58
1	•	16		8,212,500				134	2,38
1 1.	1 Domestic water	1	(day)	i				] .	,
1 1. 2	1 Domestic water Health	(MIKD/day)		l .				1 4	8
1 1. 2 2.	Domestic water     Health     Salary instead of no work	(MKD/day) 500	7	į.				1	l
1 1. 2	1 Domestic water Health	(MKD/day) 500 (MKD/month	7 (month)	,					
1 1. 2 2.	Domestic water     Health     Salary instead of no work     Negative income tax	(MKD/day) 500	7 (month)	,				194	
1 1. 2 2.	Domestic water     Health     Salary instead of no work	(MKD/day) 500 (MKD/month	7 (month)	,					
1 1. 2 2. 3	Domestic water     Health     Salary instead of no work     Negative income tax  Total	(MKD/day) 500 (MKD/month 200	7 (month)	,				194	
1 1. 2 2. 3	1 Domestic water Health 1 Salary instead of no work Negative income tax Total  JLT OF FINANCIAL/ECONOMIC EVALUATION	(MKD/day) 500 (MKD/month 200	7 (month)	,	P.C	. 11 60	3 ×103116¢	194	3,73 6,40
1 1. 2 2. 3	1 Domestic water Health 1 Salary instead of no work Negative income tax  Total  JLT OF FINANCIAL/ECONOMIC EVALUATIO  B-C: -41,500	(MKD/day) 500 (MKD/month 200	7 (month)	,	B-C B/C		3 x10 <sup>3</sup> US\$	194	
1 1. 2 2. 3	1 Domestic water Health 1 Salary instead of no work Negative income tax  Total  JLT OF FINANCIAL/ECONOMIC EVALUATIO  B-C: -41,507  B/C: 0.41	(MKD/day) 500 (MKD/month 200	7 (month)	,	B-C B/C EIRR	: 1.18	;	194	



## Annex 13

Results of Evaluation from Technical Aspect

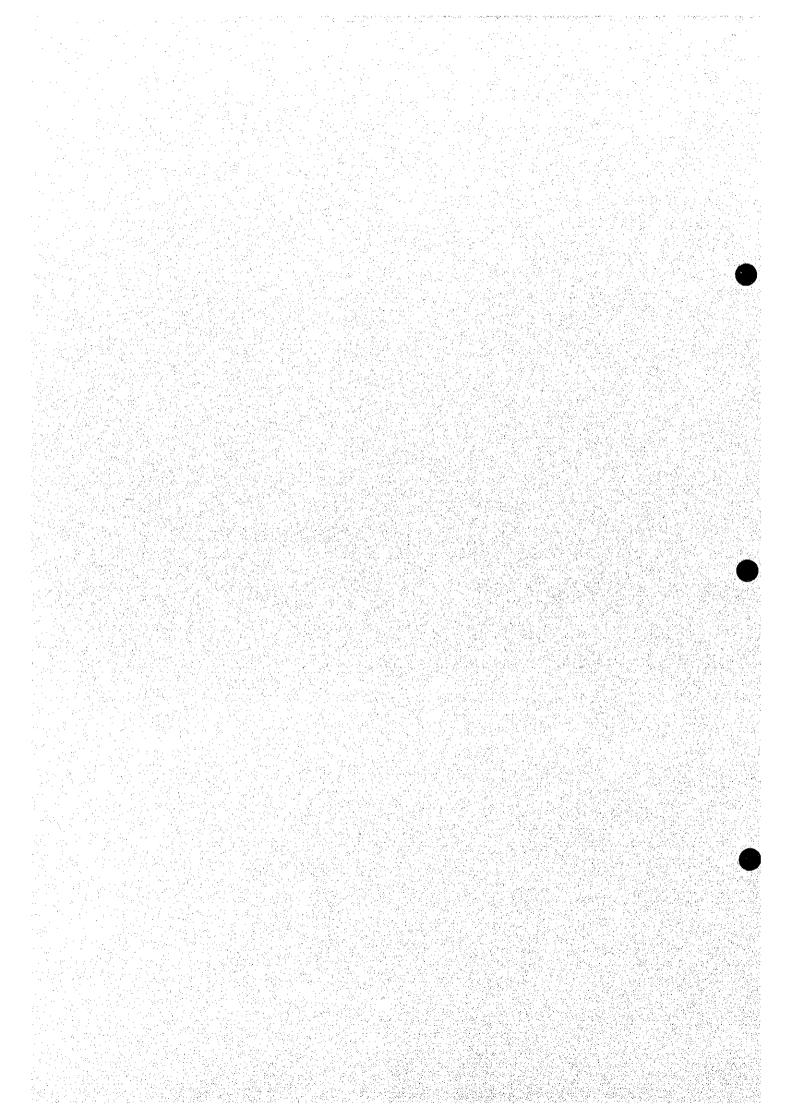


Table AN13.1 Result of Project Evaluation from Technical Aspect (1/7)

Water Supply Project for Televo - River   W & 1   The river intake in the Pena River	S S	Project Name	River Name No. Code Project Name Purpose	Design/Construction	Maintenance/Management	Uncertainty in construction	Project maturity
Since the component of the project is well and pipeline, which is most common configuration of water supply project in Macedonia, no difficulty is foreseen.  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kichevsko Pole Area Irrigation  Kehabilitation of the project  M Chype of Shupcharka dam will be conventional rock fill type dam.  This is most dominant dam type in Macedonia.  This is most dominant dam type in Macedonia.  Kehabilitation of the existing irrigation systems might be belong irrigation systems might be belong irrigation systems might be belong in the country. No difficulty is proserved in the country is in the country of the project in Macedonia.  Kehabilitation of the existing irrigation works in the country. No difficulty is in the country.		Water Supply Project for Tetovo - River Pena Intake		E 4	ation ted, tion	وير	An application for implementation of the project was submitted to the Government of Japan.
Kichevsko Pole Area Irrigation  RI Rehabilitation Project Rehabilitation Project  Construction of By-pass Channel Raven  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Rechica  Stretching at west of the Polog  ravine. It is necessary to overcome intensive undulation for placement of the pipeline.  Palighad Multipurpose Dam Project  M & I, A, P Design of Supplatanka dam will be conventional rock fill type dam.  This is nost dominant dam type in Macedonia  Slupchanka Dam Project  M Acedonia  Slupchanka Dam Project  M Type of Shupchanka dam will be conventional rock fill. This is nost dominant dam type in formation Project  Rehabilitation Project  Rehabilitation of the existing irrigation systems might be belong in the country. No difficulty is foreseen		Studena Voda Groundwater Development Project	×			It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
Construction of By-pass Channel Raven  Rechica  Rechica  Rechica  Rechica  Rechica  Patishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marishka Reka Water Supply Project  Marcedonia  This is most dominant dam type in Macedonia  Appendication of the existing irrigation systems might be belong tringation systems might be belong to familiarized construction works in the country. No difficulty is forces on the systems in the country. No difficulty is forces on the systems in the country. No difficulty is forces on the systems in the country. No difficulty is forces on the systems in the country.		Kichevsko Pole Area Irrigation Rehabilitation Project	æ	slong vorks		It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in P.I.P
Palishka Reka Water Supply Project M The pipeline would be around 40 km. But, undulation of topography is not conspicuous in Macedomia.  Paligrad Multipurpose Dam Project M & I, A, P Design of Slupchanka dam will be conventional rock fill type dam.  This is most dominant dam type in Macedonia Macedonia  Slupchanka Dam Project M Type of Slupchanka dam will be conventional rock fill. This is most dominant dam type in Macedonia.  Lipkovo - Glazuja Area Irrigation  Rehabilitation of the existing irrigation systems might be belong to familiarized construction works in the country. No difficulty is forecase.		Construction of By-pass Channel Raven Rechica	<		# \$0	Since pipeline is over 26 km, subsurface condition for foundation might differ in the valley and ridges.	Listed in PIP
Paligrad Multipurpose Dam Project M & I, A, P Design of Slupchanka dam will be conventional rock fill type dam.  This is most dominant dam type in Macedonia Macedonia  Slupchanka Dam Project M Type of Slupchanka dam will be conventional rock fill. This is most dominant dam type in Macedonia.  Lipkovo - Głaznja Area Irrigation  Rehabilitation of the existing irrigation systems might be belong to familiarized construction works in the country. No difficulty is	A1-5	Palishka Reka Water Supply Project	×			It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	An application for implementation of the project was submitted to the Government of Japan.
Slupchanka Dam Project M Type of Shupchanka dam will be conventional rock fill. This is most dominant dam type in Macedonia.  Lipkovo - Głaznja Area Irrigation  Rehabilitation of the existing irrigation systems might be belong irrigation systems might be belong to familiarized construction works in the country. No difficulty is			M&I,A,P	Design of Slupchanka dam will be conventional rock fill type dam. This is most dominant dam type in Macedonia	nt are not f training ssary to ow.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
Lipkovo - Chazapa Area Irrigation RI Rehabilitation of the existing rehabilitation Project irrigation systems might be belong to familiarized construction works in the country. No difficulty is freezent.		Slupchanka Dam Project	×	Type of Shupchanka dam will be conventional rock fill. This is most dominant dam type in Macedonia.		It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	New pipeline financed by PHARE counterpart fund. An application for conducting of F/S was submitted to the Government of Japan.
	A1-8	Lipkovo - Glaznja Area Irrigation Rehabilitation Project	;끊		+	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP. No technical study and survey has not been done yet.

# Table AN13.1 Result of Project Evaluation from Technical Aspect (2/7)

	aaturity	c.	for conducting nitted to the Japan, A S level has	۵.	۵	e.	for of the project he Japan.	for loan to Project was e Government	ρ,
	Project maturity	Not listed in PIP	An application for conducting of F/S was submitted to the Government of Japan. A study at pre-F/S lovel has been conducted.	Not listed in PIP	Not listed in PIP	Not listed in PIP	An application for implementation of the project was issued to the Government of Japan.	An application for loan to implement the Project was submitted to the Government of Japan.	Not listed in PIP
	Uncertainty in construction	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem migh happen in construction. In case it happens, practical countermeasure will be taken.	The reservoir area might be close to the border with Yugoslavia. In case that water is captured by her, the discharge is not dependable upon natural condition.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be laken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.
	Maintenance/Management	Type of Kiselichka dam will be It can be recognized that the conventional rock fill. This is most maintenance and management are not dominant dam type in Macedonia. complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are not problem might happen in complicated, but that kind of training construction. In case it happens, or education should be necessary to practical countermeasure will be ensure the technical know-how.	It can be recognized that the national from the recognized no serious maintenance and management are not problem might happen in complicated, but that kind of training construction. In case it happens, or education should be necessary to practical countermeasure will be ensure the technical know how.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the rain be recognized no serious maintenance and management are not problem might happen in complicated, but that kind of training construction. In case it happens, or education should be necessary to practical countermeasure will be ensure the technical know-how.
	Design/Construction	Type of Kiselichka dam will be conventional rock fill. This is most dominant dam type in Macedonia.	M & I. A, P Since the Vakuf dam is multipurpose dam, design will be little complicate than single purpose one.	Design of Pelince dam will be conventional rock fill type dam. This is most dominant dam type in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	As for extension of the existing system, construction of new canal network will be required. Common type of design and construction work are required.
nent projects	Purpose	M&A	M& I. A, P	<	M& 1, A	M& 1, A	M&I,P	M&I	<
Municipal, industrial, agricultural water supply and hydropower development projects	Project Name	Kiselichka Dam Project	A1-10 Vakuf Dam Project	Pelince Dam Project	Razlovci Dam Project	Balatec Dam Project	Rechani Multipurpose Dam Project	Zletovica Multipurpose Dam Project	Construction of Irrigation Sub-system Shipsko Pole, left side
cultural 1	S S	A1-9	A1-10	A1-11	A2-1	A2-2	A2-3	A2-4	A2-5
rial, agr	ž	6	10	11	12	13	14	15.	16
Municipal, indust	River Name	Vardar River Upper Reach				Vardar River Middle Reach	· · ·		

Table AN13.1 Result of Project Evaluation from Technical Aspect (3/7)

5		rvey	rvey	ırvey	ırvey	ırvey	ırvey	
Project maturity		Not listed in FIP. No technical study and survey has not been done yet.	Not listed in PIP. No technical study and survey has not been done yet.	Not listed in PIP. No technical study and survey has not been done yet.	Not listed in PIP, No technical study and survey has not been done yet.	Not listed in PIP. No technical study and survey has not been done yet.	Not listed in PIP. No technical study and survey has not been done yet.	a PIP
Proje	a la	Not listed in PIP. No technical study and stars not been done ye	Not listed in PIP. No technical study and st has not been done yet	Not listed in PIP. No lechnical study and si has not been done yet	Nor listed in PIP. No technical study and si has not been done ye	Not listed in PIP. No technical study and s has not been done yet	Not listed in PIP. No technical study and s has not been done ye	Not listed in PIP
		, ''			. 0			
The equipty in construction		It can be recognized no serious problem might happen in construction. In case it happens, additional survey might be required especially for leakage of the future reservoir.	it can be recognized no sorious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	II can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	It can be recognized no serious problem unight happen in construction. In case it happens, practical counterneasure will be taken.
rtainty in	m familia	It can be recognized no ser problem might happen in construction. In case it hap additional survey might be required especially for leak the future reservoir.	It can be recognized no so problem might happen in construction. In case it ha practical countermeasure taken.	It can be recognized no se probiem might happen in construction. In case it hat practical countermeasure taken.	II can be recognized no se problem might happen in construction. In case it ha practical countermeasure taken.	It can be recognized no se problem might happen in construction. In case it ha practical countermeasure taken.	Il can be recognized no se problem might happen in construction. In case it ha practical countermeasure ' taken.	It can be recognized no se problem unight happen in construction. In case it ha practical countermeasure taken.
11,000		Maintenance and management will be it can be recognized no serious little complicated due to complex problem might happen in system of trans-basin water transfer. construction. In case it happen additional survey might be required especially for leakage the future reservoir.	It can be problem construct practical taken.					
1 2		int will be inplox transfer.	To meet total water demand for irrigation in the Pelagonija field, integrated operation and maintenance of plural dams will be required for efficient water utilization.	To meet total water demand for irrigation in the Petagonija field, integrated operation and maintenance of plural dams will be required for efficient water utilization.	To meet total water demand for irrigation in the Pelagonija field, integrated operation and maintenance of plural dams will be required for efficient water utilization.	To meet fotal water demand for irrigation in the Pelagonija field, integrated operation and maintenance of plural dams will be required for efficient water utilization	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.
Maintenance/Management	A Paragraph	Maintenance and management will b litte complicated due to complex system of trans-basin water transfer.	To meet total water demand for irrigation in the Pelagonija field, integrated operation and mainternar of plural dams will be required for efficient water utilization.	To meet total water demand for irrigation in the Petagonija field, integrated operation and maintenar of plural dams will be required for efficient water utilization.	To meet total water demand for irrigation in the Pelagonija field, integrated operation and maintenau of plural dams will be required for efficient water utilization.	To meet fotal water demand for irrigation in the Pelagonija field, integrated operation and maintenar of plural dams will be required for efficient water utilization	It can be recognized that the maintenance and management are no complicated, but that kind of trainir or education should be necessary to ensure the technical know-how.	It can be recognized that the maintenance and management are no complicated, but that kind of trainir or education should be necessary to ensure the technical know-how.
ointenance	amenicania	ance and 1 uplicated of trans-ba	To meet total water demar irrigation in the Pelagonija integrated operation and ir of plural dams will be requ efficient water utilization.	To meet total water demar irrigation in the Pelagonija integrated operation and m of plural dams will be requ efficient water utilization.	To meet total water demai inigation in the Pelagoniji integrated operation and n of plural dams will be req efficient water utilization.	To meet total water dema- irrigation in the Pelagoniji integrated operation and r of plural dams will be req efficient water utilization	e recogniz ance and ated, but t ation shou	e recogniz ance and a ated, but t ation shou
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								It can be mainten complic or educe tensure t
909	mon	Krapa dam is located in the karstic terrain and captured water will be transferred from the Treska River to the Crna River. The design and construction will need high level of knowledge/experiences on protection of leakage of reservoir and construction of tunnel pipeline.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dan type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dan type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Development of spring and It can be recognized that the transporting water for long distance maintenance and management are not by pipeline is practical way of its complicated, but that kind of training construction in Macedonia.
Oseisan Oseisan	COIDS III	ocated in 1 tured wate in the Tres rer. The d ill need hi reriences eakage of on of tunn	be rock fi rience of e accumu	be rock fi rience of e accumu	be rock fi rience of re accumu	be rock fi rience of re accumu	be rock fi rience of re accumu	of spring a ater for lo practical v
Lasie C	Resid	Krapa dam is located in the karstic terrain and captured water will be fransferred from the Tressa River to the Crna River. The design and construction will need high level cknowledge/experiences on protection of leakage of reservoir and construction of funnel pipeling.	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dan type will be rock fill. Many cases and experience of design an construction are accumulated in Macedonia.	Dan type will be rock fill. Many cases and experience of design an construction are accumulated in Macedonia.	Dam type will be rock fill. Many cases and experience of design an construction are accumulated in Macedonia.	Dam type will be rock filt. Many cases and experience of design am construction are accumulated in Macedonia.	Development of spring and transporting water for long distant by pipeline is practical way of its construction in Macedonia.
ergs .			Case cons Mac	Dam case cons Mac	Dam case Mac	Dan case cons Mac	Dan case cons Mac	
Direction of the contract of t	ruspuse	M&I,A	∢	∢	∢	∢	4	M & I
developi		;						r Supply
aropowe	Name				<b>5</b>		**	ntal Wate
Pariest Money	riolect	Project	Project	m Project	am proje	m Project	am Projec	Suppleme
ter suppi		Krapa Dam Project	Zhvan Dam Project	Obednik Dam Project	Kochishte Dam project	Zhurche Dam Project	Konjarka Dam Project	Studencica Supplemental Water Supply Project
Municipal, industrial, agricultural water supply and hydropower development projects  Code  Code	No.	A3-1	A3-3	A3-4 0)	A3-5	A3-6 Zi	A3-7 K	A3-8 P3-8
al, agricu	Š	71.	81	19	ន	12	g	ន
, industri	aune	ch ch	-					
Auntcipal	Kiver Name	Vardar River Lower Reach			·			

# Table AN13.1 Result of Project Evaluation from Technical Aspect (4/7)

Municipal, industra	Tai, agir	cultural	Municipal, industrial, agricultural water supply and hydropower development project					
River Name	Š.	S S	Project Name	Purpose	Design/Construction	Maintenance/Management	Uncertainty in construction	Project maturity
Vardar River Lower Reach	8	A3-9	Petrushka Dam Project	∢	Dam type will be tock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dan type will be rock fill. Many It can be recognized that the cases and experience of design and maintenance and management are not goostruction are accumulated in complicated, but that kind of training Macedonia.  Macedonia.	It can be recognized no serious problem night happen in construction. In case it happens, practical countermeasure will be laken.	Not listed in PIP
	23	A3-10	Kovanska Dam Project	∢	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
	8	A3-11	A3-11 Konsko Dam Project	M&I,A		It can be recognized that the maintenance and management are not problem unight happen in complicated, but that kind of training construction. In case it happens, or education should be necessary to practical countermeasure will be ensure the technical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
	27	A3-12	Valandovo Area Irrigation Project	RI	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many It can be recognized that the cases and experience of design and maintenance and management are not pronstruction are accumulated in complicated, but that kind of training or education should be necessary to make the fechnical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
Crn Drim River Basin	8	A4-1	Irrigation System Betterment Project in Resen	<b>2</b>	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	An application for implementation was sumitted to the Japanese Government.
	83	A4-2	Ohrid Area Frigation Rehabilitation Project	RI	- S S S	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
Strumica River Basin	SE .	A5-1	Podares Dam Project	M&1,A	75	It can be recognized that the maintenance and management are not complicated, but that kind of training or education should be necessary to ensure the technical know-how.	It can be recognized no serious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in PIP
	31	AS-2	Oraovica Dam Project	M & B	Dam type will be rock fill. Many cases and experience of design and construction are accumulated in Macedonia.	Dam type will be rock fill. Many it can be recognized that the cases and experience of design and maintenance and management are not nonstruction are accumulated in complicated, but that kind of training Macedonia.  Macedonia.	It can be recognized no scrious problem might happen in construction. In case it happens, practical countermeasure will be taken.	Not listed in P.I.P

# Table AN13.1 Result of Project Evaluation from Technical Aspect (5/7)

Municipal, industr	ial, agri	cultural	Municipal, industrial, agricultural water supply and hydropower development	nent projects				
River Name	Š	S S	Project Name	Purpose	Design/Construction	Maintenance/Management	Uncertainty in construction	Project maturity
Strumica River Basin	32	AS-3	A5-3 Mantovo Area Irrigation Project	RI	Rehabilitation of the existing It can be recognized that the irrigation systems might be belong maintenance and management for familiarized construction works complicated, but that kind of in the country. No difficulty can be or education should be necessen.	nt are not f training sary to	rious ppens, will be	Not listed in PIP
	33		A5-4 Strumica Area Irrigation Project	RI	Rehabilitation of the existing irrigation systems might be belong to familiarized construction works in the country. No difficulty can be seen.	Rehabilitation of the existing It can be recognized that the It can be recognized no serious irrigation systems might be belong maintenance and management are not problem might happen in to familiarized construction works complicated, but that kind of training construction. In case it happens, in the country. No difficulty can be or education should be necessary to practical countermeasure will be seen.		Not listed in PIP

Kural water supply projects	projects							
River Name 1	No.	Code No.	Project Name	Purpose	Design/Construction	Maintenance/Management	Uncertainty in construction	Project maturity
Vardar River Upper Reach	34	B1-1	Vardar River Upper Reach Rural Water Supply Project	SS.	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and managemen water supply projects in relatively easy, but that kind fractionia.  Macedonia.  Inecessary.	nt are of be	It can be recognized that although There are preliminary studies and technical reports for some appear, it is easy to take measures villages, but preliminary studies including topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
	35	B1-2	Treska River Upper Reach Rural Water Supply Project	RS	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and managemen water supply projects in relatively easy, but that kind Macedonia.  Macedonia.  It can be recognized that the maintenance and managemen relatively easy, but that kind training or education should necessary.	of of be	It can be recognized that although  unexpected problems might appear, it is easy to take measures with the problems  topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
	36	B1-4	Petrovec Rural Water Supply Project	88	It can be recognized that the design It can be recognized that the are generally applied for intermaintenance and managemen village water supply projects in complicated, but that kind of Macedonia.	t are not f training sary.	unexpected problems might and technical report, but a appear, it is easy to take measures feasibility study including with the problems  surveys should be necessary to review the project again in new political and economical new political and economical environment.	There is a preliminary study and technical report, but a feasibility study including topographical and geological surveys should be necessary to review the project again in new political and economical environment.

# Table AN13.1 Result of Project Evaluation from Technical Aspect (6/7)

Rural water supply projects	y projec	ts						
River Name	No.	Code No.	Project Name	Purpose	Design/Construction.	Maintenance/Management	Uncertainly in construction	Project maturity
Vardar River Upper Reach	37	B1-5	Skopje Circle Rural Water Supply Project	RS	It can be recognized that the design It can be recognized that tho are generally applied for rural maintenance and manageme water supply projects in relatively easy, but that kind Macedonia.  Macedonia.  necessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although There are preliminary studies unexpected problems might and technical reports for some appear, it is easy to take measures villages, but preliminary studies including topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
	38	B1-6	Kriva Palanka/Kumanovo Circle Rural Water Supply Project	SS S	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and managemen water supply projects in relatively easy, but that kind training or education should necessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although unexpected problems might appear, it is easy to take measures with the problems	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
Vardar Middle Reach	Ç.	B2-1	Bregainica River Basin Rural Water Supply Project	RS	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and manageme water supply projects in relatively easy, but that kind Macedonia.  Macedonia.  mecessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although unexpected problems might appear, it is easy to take measures with the problems	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
Vardar Lower Reach	40	B3-1	Pelagonija Circle Rural Water Supply Project	RS	It can be recognized that the design. It can be recognized that the are generally applied for rural maintenance and manageme water supply projects in relatively easy, but that kind Macedonia.  Macedonia.  mecessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although unexpected problems might appear, it is easy to take measures with the problems	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
	14	B3-2	Medzirlija Rural Water Supply Project	RS	It can be recognized that the design It can be recognized that the are generally applied for extension maintenance and management are of urban water supply to villages in relatively easy, but that kind of training or education should be necessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although There is a preliminary study unexpected problems might and technical report, but a appear, it is easy to take measures feasibility study including with the problems topographical and geological surveys should be necessary to review the project again in new political and economical environment.	There is a preliminary study and technical report, but a feasibility study including topographical and geological surveys should be necessary to review the project again in new poitical and economical environment.

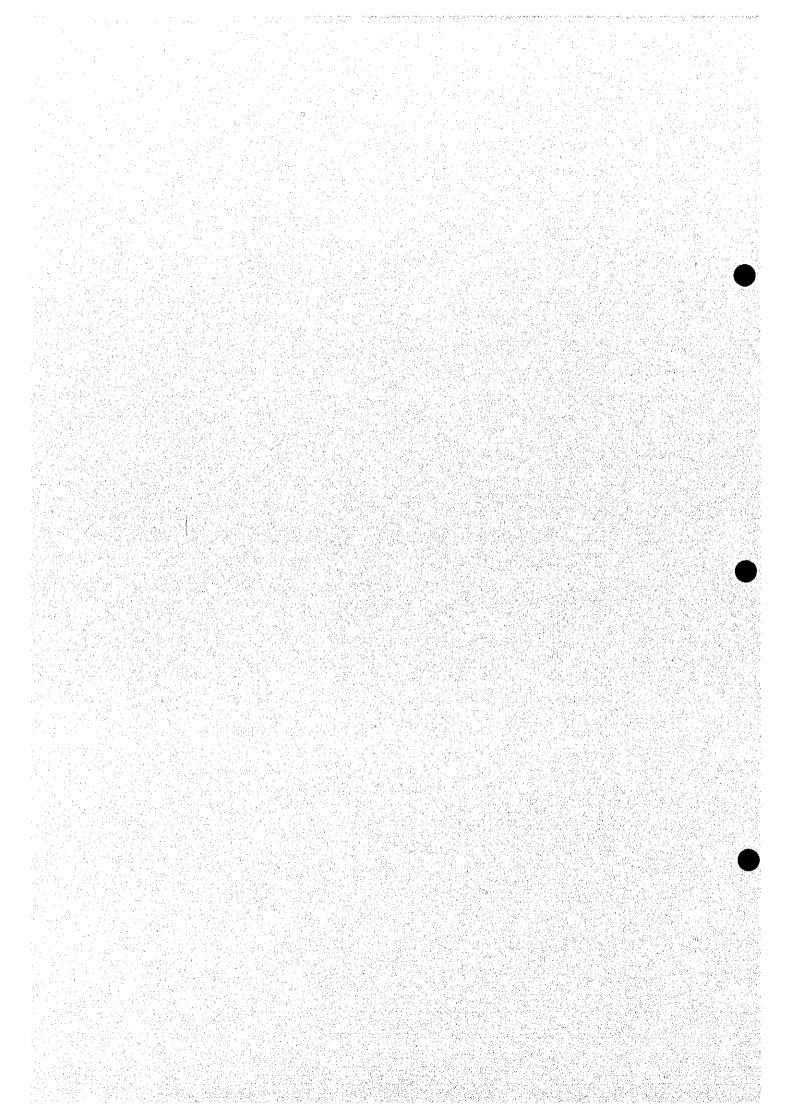
Table AN13.1 Result of Project Evaluation from Technical Aspect (7/7)

Kurai water supply projects	Y PI QU	2						
River Name	No.	Code No.	Project Name	Purpose	Design/Construction	Maintenance/Management	Uncertainty in construction	Project maturity
Vardar Lower Reach/Strumica	24	B3-3	Vardar River Lower Reach/Strumica River Basin Rural Water Supply Project	RS	It can be recognized that the design It can be recognized that the and construction are generally maintenance and managemen applied for extension of urban relatively easy, but that kind water supply projects in training or education should macedonia.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although There are preliminary studies unexpected problems might appear, it is easy to take measures villages, but preliminary with the problems topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
Crn Drim	43	B4-1	B4-1 Southwest Mountains Area Rural Water Supply Projeα	RS	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and managemen water suprly projects in relatively easy, but that kind Macedonia.  Macedonia.  Iraining or education should necessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although There are preliminary studies unexpected problems might appear, it is easy to take measures villages, but preliminary with the problems topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including topographical and geological surveys should be necessary in general.
Nationwide	44	B6-1	B6-1 Nationwide Rural Water Supply Extension/Improvement Project	RS	It can be recognized that the design It can be recognized that the are generally applied for rural maintenance and managemen water supply projects in relatively easy, but that kind Macedonia.  Macedonia.  Inecessary.	It can be recognized that the maintenance and management are relatively easy, but that kind of training or education should be necessary.	It can be recognized that although There are preliminary studies unexpected problems might appear, it is easy to take measures villages, but preliminary with the problems topographical and geological surveys should be necessary in general.	There are preliminary studies and technical reports for some villages, but preliminary studies including lopographical and geological surveys should be necessary in general.



## Annex 14

Results of Evaluation from Social Aspect



## Results of Evaluation from Social Aspect (1/6)

River Name No.	9 2 0 2	River Name No. Code Project Name Purpose Futfills	Purpose	nent of BHN		Social Consideration	Consistency with the Oulput of PCM Workshop
Vardar River Upper Reach		-i Water Supply Pipeline for Tetovo - River Pena Intake	M & I	To solve the seasonal water shortage in the urban area of Tetovo Improvement of water quality to prevent possible occurrence of communicable diseases	area Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	
155	2 A1	A1-2 Studena Voda Groundwaer Development Project	×	To solve the seasonal water shortage in the urban areas of Tetovo and Goslivar.	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	No big social risks expected Geader consideration is necessary in institutional strengthening and community participation	1
Γ΄΄	. A	A1-3 Kichevsko Pole Area Imgation Rehabilitation Project	<	I	Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quanitative and qualitative production, targeting the market of Skopje. institutional strengthening at participation	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	
:	₹	A1-4 Construction of By-pass Channel Raven Rechea	<		Through the stable agricultural water supply, the project Water right issue should be considered will contribute to improvement of quantitative and qualitative production, targeting the market of Skopje. institutional strengthening and commut participation	Water right issue should be considered Gender consideration is necessary in institutional strengthening and community participation	
	γ · · · · · · · · · · · · · · · · · · ·	A1-5 Palishta Reka Water Supply Project	<	Stable and safe water supply in the mountain area in the southern and southeastern area of Skopje Reduction of occurrence rate of communicable diseases among infants and school children Improvement of primary health care and productive health Improvement of living conditions	Fulfilment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Large quantity of water usage in the urban area has increased the problem with seasonal shortage of domestic water in the villages located near the urban area. In the mountain villages, the complicated and time-consuming procedures of project approval, no proper survey conducted abut the water sources, undeveloped urban plan, and irrational use of groundwater were pointed out. Due to the limited access to the safe drinking water, the occurrence rate of water-born diseases is high among school children.
<u> </u>	₹   •	A1-6 Paligrad Multipurpose Dam Project	M& I	To solve the seasonal water shortage in the metropolitan area. Alleviation of the living conditions in the slam area.	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	There is not serious problems with the quantity of water supply. Important is the deteriorated quality of the water sources due to untreated wastewater.
	•=• · · · · · · · · · · · · · · · · · ·		∢	•	Through the stable agricultural water supply, the project! No big social risks expected will contribute to improvement of quantitative and Gender consideration is necequalitative production, targeting the market of Skopje. institutional strengthening at participation	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Shortage of agricultural water and inefficient usage of water resources were pointed out.
			۵.		The stable electric supply will contribute to improvement of living conditions and to activation of the domestic industries.	No big social risks expected	
	4	A1-7 Slupchanka Dam Project	Z	To solve severe seasonal water shortage in the urban area in Kumanovo due to its rapid population growth Decrease of occurrence of communicable diseases	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	There is a serious problem with the shortage of drinking water due to the rapid population growth in Kumanovo. Additionally, the occurrence rate of communicable diseases has been high because of limited access to safe water.

## Results of Evaluation from Social Aspect (2/6)

Municipal, in	dustria	ial, agri	Municipal, industrial, agricultural water supply and hydropower development projects	vdropowe	r development projects			
River Name	S.	Code	Project Name	Purpose	Fuffilment of BHN	Socioeconomic Impact	ıtion	Consistency with the Output of PCM Workshop
	<sub>∞</sub>	A1-8	Lipkovo - Giaznja Area Imgation Rehabilitation Project	ä		Through the stable a gricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and dender consideration is need qualitative production, targeting mainly the domestic institutional strengthening at market.	assary in nd community	Shortage of agricultural water, aged irrigation facilities, decreased agricultural production and poor market compatitiveness were pointed out.
	٥	A1-9	Kiselichka Dam Project	M&A	To solve the water shortage in the entire year due to limited water resources	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Serious shortage of domestic and agricultural water in all through the year was stressed. In the mountain area, inhabitants do not have the access to safe drinking water.
	0.	A1-10	Vakuf Dam Prject	M&I,A	To solve the seasonal water shortage in urban area in Kumanovo and the nearby towns, where continuous population growth is expected.	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	Resentement of S00 families Gender consideration is necessary in institutional strengthening and community participation	Limited volume of existing water sources and shortage of domestic and agricultural water was pointed out. Even after completion of the Slupchanka Dam, there will be seasonal water shortage due to the population growth in the long-term period.
	······································			Δ.	1	The stable electric supply will contribute to securing the improved living conditions activation of the domestic industries for the future population. Especially, the project covers one of the important industrial area, Kumanovo, in the country.		
	F	A1-11	Pelince Dam Project	∢	1	Through the stable agricultural water supply, the project Coordination might be necessary with will contribute to improvement of quantitative and qualitative production, targeting mainly the domestic mear the boundary market.  Gender consideration is necessary in institutional strengthening and commun participation	Coordination might be necessary with Yugoslavia because the dam site is located near the boundary Gender consideration is necessary in institutional strengthening and community participation	
Vardar River Middle Reach	12	R2-1	Razlovci Dam Project	M&I.A	To solve the seasonal water shortage in the urban area in Delcevo etc.	M. &. I. A. To solve the seasonal water shortage in the urban area Through the stable agricultural water supply, the project No big social risks expected in Deloevo etc.  will contribute to improvement of quantitative and Gender consideration is nece qualitative production, targeting international marker. institutional strengthening at	I No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	1
	53	A2-2	Blartec Dam Project	M&I.A	To solve the seasonal water shortage in the urban area in Vinica etc.	M & I. A To solve the seasonal water shortage in the urban area Through the stable agricultural water supply, the project No big social risks expected in Vinica etc.  Will contribute to improvement of quantitative and Gender consideration is necessarily the project No big social risks expected of the vinica etc.  Gender consideration is necessarily to the production, targeting international market. Institutional strengthening as participation.	ssary in id community	Instead of high potentiality of agricultural production, the area has suffered from the shortage of agricultural water and undeveloped irrigation system. This has negatively influenced on the quantitative and qualitative improvement of the products.
	41	A2-3	Rechani Multipurpose Dam Project	M&1, A	To solve the seasonal water shortage in the urban ared Positive impact through realization of stable water in Kocani and Vinica etc.  supply in the urban area with rapidly growing population and to improve living conditions	Positive inpact through realization of Stable water supply in the urban area with rapidly growing population and to improve living conditions	Coordination should be considered between Kocani and Vinica Gender consideration is necessary in institutional strengthening and community participation	Linited water volume of the existing water sources, sow temperature of groundwater, inelficient usage of water resources and irigation systems, aged tringation system, and undeveloped drainage systems were pointed out.

## Results of Evaluation from Social Aspect (3/6)

Municipal, inc	dustria	Municipal, industrial, agricultural water supply and hydropower development projects	ydropowe	r development projects			
River Name	ż	Code Project Name	Purpose	Fulfilment of BHN	Socioeconomic Impact	Social Consideration	Consistency with the Output of PCM Workshop
			۵.	1	The stable electric supply will contribute to securing the improved living conditions activization of the domestic industries for the future population.	1	I
	15 /	A2-4 Zetovica Multipupurpose Dam Project	M & I	To solve the seasonal water shortage in the urban area Positive impact through realization of stable water of Ship etc.  To reduce the high infant mortality rate population and to improve living conditions  To reduce the occurrence rate of the communicable diseases		No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Limited water volume of the existing water sources, shortage of drinking water in all through the year, decreased economic activities due to the shortage of industrial and agricultural water supply, and deteriorated water quality due to the untreated industrial wastewater were pointed out.
			<		Through the stable agricultural water supply, the project will contribute to improvement of quantitative and qualitative production, targeting domestic and international market.		
			<u>-</u>		The stable electric supply will contribute to securing the improved living conditions activization of the domestic industries for the future population.	1	-
	7	A2-5 Construction of Intigation Sub-system Shtipsko Pole, left side	<		Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and Gender consideration is need qualitative production, targeting international market. institutional strengthening at participation	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	
Vardar River Lower Reach	17	A3-1 Krapa Dam Project	M & I, A	M & I, A To solve the seasonal water shortage in the urban area of Prilep and the nearby towns.	the project will secure the stable and safe water supply to the urban area near Prilep. Through the stable agricultural water supply, the project will contribute to improvement of quantitative and qualitative production (tobacco, fruit etc.), targeting international market.	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Seasonal shortage of drinking water and agricultural water, limited water volume of the existing water sources, undeveloped imigation facilities, irrational use of water resources, undeveloped drainage system, and low collection rate of water charges were pointed out.
			4		Through the stable agricultural water supply, the project No big social risks expected will contribute to immensionate of manifestive and	No big social risks expected Gooder consideration is necessary in	Seasonal shortage of drinking water and agricultural unter Hinited water volume of the existing water contrast
	19	A3-3 Obednik Dam Project	∢ .		with continuous to approvement or quantitative and qualitative production (vegetables, grapes etc.), targeting institutional strengthening and community to the continuous of		undeveloped irrigation facilities, irrational use of water
	$\vdash$		<		International market	TOTAL STATE OF THE	collection rate of water charges were pointed out.
	_	_	4				
	8	$\overline{}$	4	1			
		A3-7 Studencica Supplemental Water Supply Project	I 왕 포	To solve the seasonal water shortage in Kicevo, Krushevo, Bitola, Demir Hisar etc. To reduce the high infant mortality rate in Krushevo and Demir Hisar	Positive impact through realization of stable water supply in the urban area with rapidly growing population and to improve living conditions	Water ngnt and the way of maintenance should be well considered since the project covers several municipalities/villages.	Water shortage of the water sources in summer, aged and undeveloped water supply network, water shortage due to the growing population, and inefficient usage of water sources were pointed out.
-							

## Results of Evaluation from Social Aspect (4/6)

Distar Mama	nau str	Code	Municipal, monstrat, agreement a water supply and njordpower devembrates, process homes and Code basing Name Director	Pumose	Puffilment of BHN	Socioeconomic Impact	Social Consideration	Consistency with the Output of PCM Workshop	
	ž.	A3.8	Petrushka Dam Project	4		pply, the project itative and etc.), targeting	ssary in nd community	Inefficient use of water resources, very dry weather, undeveloped irrigation network/equipment, big distance between the joints, and big water loss were pointed out.	
	22	A3-9	Kovanska Dam Project	∢	1	Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and qualitative production (vegetables and fruit etc.), institutional strengthening at targeting international market.	ssary in id community	Inefficient use of water resources, very dry weather, undeveloped irrigation network/equipment, big distance between the joints, and big water loss were pointed out.	
	28	<b>A</b> 3-10	A3-10 Konsko Dam Project	M & 1, A	To solve the seasonal water shortage in the urban area in Gevgelija	M & I. A To solve the scasonal water shortage in the urban area The project will secure the stable and safe water supply It in Gevgelija  of the urban area near Prilep. Through the stable agricultural water supply, the project will contribute to improvement of quantitative and qualitative production granty-grown vegetables, fruit etc.), targeting international market.	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Undeveloped water resources, irrational use of water sources, aged pump station and network facilities, deteriorated water quality, untreated industrial wastewater very dry weather, undeveloped irrigation facilities, and big difference between joints, and big water loss were pointed out.	
	27	A3-11	Valandovo Area Irrigation Project	M		Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and Gender consideration is nexqualitative production (early-grown vegetables, fruit institutional strengthening at etc.), targeting international market.	ssary in id community	incfficient use of water resources, very dry wealher, undeveloped irrigation network/equipment, big distance between the joints, and big water loss were pointed out.	
Cm Drim River Basin	28	A4-1	Irrigation System Betterment Project in Resen	ਕ		Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and qualitative production (vegetables, fruit, apples), targeting international market.  Improvement of post-harvest system	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation		
	8	A4-2	Ohrid Area Irrigation Rehabilitation Project	교		Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and qualitative production (vogetables, fruit etc.), targeting institutional strengthening at international market.	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation		
Strumica River Basin	06	A5-1	Podares Dam Project	M & 1	To solve the seasonal water shortage in the urban area in Strumica etc.	To solve the seasonal water shortage in the urban area Through the stable agricultural water supply, the project live big social risks expected will contribute to improvement of quantitative and Gender consideration is nece qualitative production (vegetables, fruit, apples), institutional strengthening at targeting international market.  Improvement of post-harvest system	ssary in id community	Inefficient use of water resources, very dry weather, undeveloped irrigation network/equipment, big distance between the joints, and big water loss were pointed out.	
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## Results of Evaluation from Social Aspect (5/6)

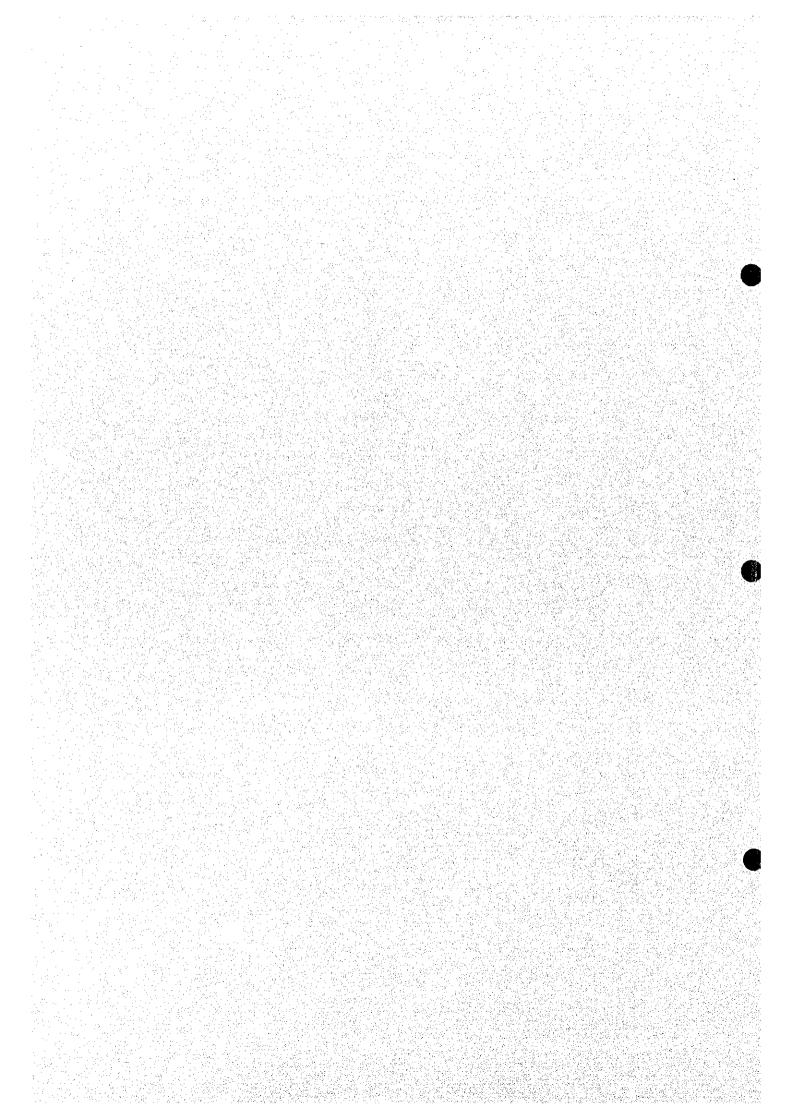
TTIONELL DOS. 11								
River Name	ģ	ž	Project Name	Purpose	Fulfilment of BHN		Social Consideration	Consistency with the Output of PCM Workshop
	E .	A5-2	Oraovica Dam Project	X % %	To solve the seasonal water shortage in the urban areas of Radovish and Strumica, and the nearby towns improvement of the living environment	ater ss of ntal	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	I
	32	A5-3	Mantovo Area Irrigation Project	R	C > 0 .3	Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and Gender consideration is necequalitative production (vegetables, fruit etc.), targeting institutional strengthening at international market.	ssary in od community	Inefficient use of water resources, very dry weather, undeveloped irrigation network/equipment, big distance between the joints, and big water loss were pointed out.
	8	A5-4	Strumica Area Itrigation Project	⊋ .	7 7 7 7	Through the stable agricultural water supply, the project No big social risks expected will contribute to improvement of quantitative and Gender consideration is nece qualitative production (vegetables, fruit etc.), targeting institutional strengthening at international market.	ssary in id community	Inefficient use of water resources, very dry weather, undeveloped irrigation network/equipment, big distrance between the joints, and big water loss were pointed out.
Rural water supply project	Supply	ly projec						
River Name	ž	S S	Project Name	Purpose	Fulfilment of BHN	Socioeconomic Impact	Social Consideration	Consistency with the Output of PCM Workshop
Vardar River Upper Reach	<u> </u>	34 B1-1	Vardar River Upper Reach Rural Water Supply Project	RS	Stable and safe water supply in the mountain areas F near Tetovo and Gostivar Improvement of primary health care and reproductive health improvement of living conditions	Fulfillment of the Basic Human Needs	No big social nisks expected Gender consideration is necessary in institutional strengthening and community participation	1
:	35	35 B1-2	Tresta River Upper Reach Rural Water Supply Project	S	Stable and safe water supply in the mountain areas near Kichevo and M. Brod. Improvement of primary health care and reproductive health improvement of infant mortality rate (especialin M. Brod) Improvement of living conditions	Fulfillment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Undeveloped facilities of the existing reservoir, limited number of water sources, undeveloped distribution network, aged network facilities, shortage of groundwater due to the limited snowfall, and limited access to safe drinking water were the main problems in the mountain villages.
	8	36 B1-4	Perrovec Rural Water Supply RS Project	RS	Stable and safe water supply in the mountain area in the southern and southeastern area of Skopje Improvement of primary health care and productive health improvement of living conditions Stable water supply to the Skopje International Airport	Fulfillment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Ditto
	33	37 B1-5	Skopje Circle Rural Water Supply Project	RS	Stable and safe water supply to the villages which are Fulfillment of the Basic Human Needs not covered by the other projects Improvement of primary health care and reproductive health Improvement of living conditions		No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Dito

## Results of Evaluation from Social Aspect (6/6)

River Name	No. Code		Purpose	Fulfillment of BHN		Social Consideration No big social risks expected	Consistency with the Output of PCM Workshop Limited water volume of the water sources, water shortage
	38 B1-6	Kriva Palanka/Kumanovo Cirete Rural Water Supply Project	82	Stable water supply to the villages ranging on the boundary areas with Yugoziavia and Buigaria from Kriva Palanka and Kumanovo Reduction of the occurrence rate of the communicable diseases Improvement of primary health care and reproductive health Improvement of living conditions	Fulfilment of the Basic Auman Needs	No big social risks expected of Gender consideration is necessary in fusitutional strengthening and community participation	Lamica water votanes or use water sources, water sind in through the year, and sever crestriction of water is supply during the dry season were pointed out. The limited access to safe drinking water in the mountain villages causes various health problems.
Vardar Middle Reach	39 B2-1	Bregalnica River Basin Rural Water Supply Project	RS	Stable water supply to the villages located near Veies Fulfillment of the Basic Human Needs and Ship Reduction of occurrence rate of the waterborn communicable diseases Improvement of primary health care and reproductive health Improvement of infant mortality rate in Veies, Ship and Sveti Nikole Improvement of living conditions		No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Limited water volume of the water sources and water shortage in all through the year were pointed out. Limited access to safe drinking water in the mountain villages was also serious problem.  In Veles, deteriorated water quality of water sources and aged distribution system have seriously affected to the health conditions of the inhabitants.
Reach	r 40 B3-1	Pelagonija Cirole Rural Water Supply Project	§	Stable water supply to the villages near Prilep, Bitola, Krushevo, and Demir Hisar Reduction of the occurrence rate of water-born communicable diseases reprovement of primary health care and reproductive health.  Reduction of infant mortality rate in Bitola and Krushevo Improvement of itving conditions	Bitola, Pulfiliment of the Basic Human Needs ductive	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Undeveloped facilities of the existing reservoir, limited number of water sources, undeveloped distribution network, aged network facilities, shortage of groundwater dute to the limited snowfall, and limited access to safe drinking water were the main problems in the mountain villages.
·	41 B3-3	Medzitlija Rural Water Supply Project	SS.	Stable water supply to the villages in Meglioria located near Bitola Improvement of primary health care and reproductive health Reduction of infant monality rate Improvement of living conditions	Fulfilment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Undeveloped facilities of the existing reservoir, limited number of water sources, undeveloped distribution network, aged network facilities, shortage of groundwater due to the limited snowfall, and limited access to safe drinking water were the main problems in the mountain villages.
Vardar Lower Reach/ Strumica	r 42 B4-1	Vardar River Lower Reach/Stromica River Basin Rurai Water Supply Project	RS.	Stable water supply to the villages near Gevgelija. Valandovo, Strumica, and Radovish Improvement of primary health care and reproductive health Improvement of living conditions	Fulfilment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Undeveloped and irrational use of water sources, inefficient use of water resources, aged pump station and distribution facilities, polluted water quality, univarted industrial wastewater, very dry weather, and serious seasonal shortage of domestic water were pointed out.
Cm Drim	43 86-1	Southwest Mountains Area Rural Water Supply Project	RS	Stable water supply to the mountain villages near Ohrid, Struga, Debar, and Resen improvement of primary health care and reproductive health Reduction of infant mortality rate in Debar Reduction of the occurrence rate of communicable diseases in Debar and Resen inprovement of living conditions	Fulfilment of the Basic Human Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	ı
Nationwide	44 B6-1	Nationwide Rural Water Supply Extension/Improvement Project	RS	Further maintenance and improvement of the accomplished fulfillment rate of the Basic Hunan Meets in the villages	Fulfiliment of the Basic Hunan Needs	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	ŧ.

## Annex 15

Results of Evaluation from Institutional Aspect



# Results of Evaluation from Institutional Aspect (1/7)

f change of tc.)	neat required	neut required	nent required	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r usage in reased the shortage of villeges are. In the complicated recedures of	neat required	neut required
Others (Necessity of change of regulations etc.)	No special legal treatr	No special legal treate	No special legal treati	I	Large quantity of water usage in the urban area has increased the problem with seasonal shortage of domestic water in the villages located near the urban area. In the mountain villages, the complicated and time-cousuming procedures of project approval	No special legal treatment required	No special legal treatment required
Financial Situation	Operation cost for increased personnel for the No special legal treatment required water quality monitoring laboratory Operation cost for operation and maintenance of facilities and equipment	Operation cost for increased personnel for the No special legal treatment required new project implementation, operation, and maintenance Operation cost for operation and maintenance of facilities and equipment	Operation cost for operation and maintenance No special legal treatment required of the irrigation system rehabilitation project	Water right issue should be considered Gender consideration is necessary in institutional strengthening and community participation	No big social risks expected Gender consideration is necessary in institutional strengthening and community participation	Operation cost for personnel for implementation, operation, and maintenance of the new multi dam construction project Operation cost for operation and maintenance of facilities and equipment	Operation cost for personnel for implementation, operation, and maintenance of the new irrigation system construction project. Operation cost for one ration and maintenance cost for one ration and maintenance.
Human Resources and Facilities	Human resources need to be enhanced for more effective project of peration cost for increased personnel for the implementation and maintenance.  New personnel should be allocated for the water quality monitoring Operation cost for operation and maintenance laboratory.  Technical support is required from IHP, PWME HQ (WDf).	Personnel for project management and engineers are required Should be promoted as the pilot project of groundwater development  Technical support of PWME HQ (Geohydroproject)	Requiring institutional expert.  Enhancement of service system for water utilization, water charge of the irrigation system rehabilitation project collection, and facility maintenance.  Cooperation with the MAPWE extension services  Cooperation with WB irrigation rehabilitation project	PWME Tetovo  Requiring personnel of project management and engineers  Operation and management division needs to be Enhancement of service system for water utilization, water charge Gender consideration is necessary in collection, and facility maintenance  Cooperation with WB irrigation rehabilitation project  Water right issue should be considered for the project implementation, water charge Gender consideration is necessary in institutional strengthening and comm  Cooperation with WB irrigation rehabilitation project	Fulfillment of the Basic Human Needs	PWME Skopje  Communal Enterprise "Vodovod"  Communal Enterprise "Vodovod"  Less and facility maintenance  PWME Skopje.  Requiring personnel of project management and engineers for the Coperation cost for personnel for maintenance  Less and facility maintenance  Requiring personnel of project management for management and maintenance  Less and facility maintenance  of facilities and equipment	PWME Skopje  Operation and management division needs to be Euhancement of service system for water utilization, water charge implementation, operation, and maintenance established for the project implementation.  Cooperation with the MAFWE extrasion services  Cooperation with WH irrication reliabilitation noticet  Operation cost for one-ration and maintenance
Planned Organization	Communal Enterprise "Tetovo"  The current organization is supposed to handle the new project, except the new department of water ouality monitoring laboratory.	Communal Enterprise "Tetovo" Operation and management division needs to be established for the project implementation.	PWME Skopje The current organization is supposed to handle the project implementation.	PWAE Tetovo Operation and management division needs to be established for the project implementation.	Stable and safe water supply in the mountain area Fulfillment of the Basic Human Needs in the southern and southeastern area of Skopje Reduction of occurrence rate of communicable diseases among infants and school children Improvement of primary health care and productive health Improvement	PWME Skopje Communal Enterprise "Vodovod" Operation and management division needs to be established for the project implementation in PWME Skopje.	PWME Skopje Operation and management division needs to be established for the project implementation.
Purpose	M&I	Z	¥ .	∢ .	<b>A</b>	M&I	ď
Project Name	Water Supply Pipeline for Tetovo - River Pena Intake	Studena Voda Groundwaer Developmentt Project	Kichevsko Pole Area Irrigation Rehabilitation Project	Construction of By-pass Channel Raven Rechca	Patishka Roka Water Supply Project	Paligrad Multipurpose Dam Project	
Code No.	A1-1	A1-2	AI-3	AI-4	A1-5	A1-6	
No.	-	7	<b>ε</b>	4	w	9	
River Name	Vardar River Upper Reach	····			·		

# Results of Evaluation from Institutional Aspect (2/7)

River Name	Ŋ.	g S	Project Name	Purpose	Planned Organization	Human Resources and Facilities	Financial Situation	Others (Necessity of change of regulations etc.)
		0.00		p.	ECM Operation and management division needs to be established for the project implementation.	Personnel of project management and engineers required Improvement of equipment for facility maintenance	Operation cost for personnel for implementation, operation, and maintenance of the new hydropower generation station construction project Operation cost for operation and maintenance of facilities and equipment	No specia
·	7	AI-7	Slupchauka Dam Project	Z	To solve severe seasonal water shortage in the urban area in Kumanovo due to its rapid population growth Decrease of occurrence of communicable diseases	PWME Kumanovo  Communal Euterprise "Kumanovo"  Communal Euterprise "Kumanovo"  Operation and management division needs to be established for the Enhancement of service system for water project implementation in PWME Kumanovo.  maintenance	Requiring personnel of project management Operation cost for personnel for and engineers for the new dam operation implementation, operation, and facility water charge collection, and facility water supply reservoir construction maintenance maintenance of project Operation cost for operation and maintenance of facilities and equipment	Operation cost for personnel for implementation, operation, and maintenance of the new domestic water supply reservoir construction project Operation cost for operation and maintenance of facilities and equipment
	∞	A1-8	Lipkovo - Glaznja Area Irrigation Rebabilitation Project	R	PWME Kumanovo Operation and management division needs to be established for the project implementation.	Requiring personnel of project management and engineers Enhancement of service system for water utilization, water charge collection, and facility maintenance Cooperation with the MAFWE extension services Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance No special legal treatment required for the irrigation system rehabilitation project	No special legal treatment required
	٥	A1-9	Kiselichka Dam Project	M&A	M& A PWME Kumanovo "Kriva Palanka" Communal Euterprise "Kriva Palanka" Operation and management division needs to be established for the project implementation in PWME Kumanovo.	Requiring personnel of project management and engineers  Enhancement of service system for water utilization, water charge for the new scale irrigation system and dam collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance No special legal treatment required for the new scale irrigation system and dam construction project	No special legai treatment required
	10	A1-10	Vakuf Dam Prject	M & 1, A	M & I, A PWME Kumanovo Communal Enterprise "Kumanovo" Operation and management division needs to be established for the project implementation in PWME Kumanovo.	Requiring personnel of project management and engineers  Enhancement of service system for water utilization, water charge for the new dam and large-scale irrigation collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance Resettlement of inhabitants for the new dam and large-scale irrigation system construction project	Resertiement of inhabitants
			 :	p <sub>4</sub>	ECM Operation and management division needs to be established for the project implementation.	ECM Operation and management division needs to be Improvement of equipment for facility maintenance established for the project implementation.	Operation cost for personnel for implementation, operation, and maintenance of the new hydropower generation station construction project Operation cost for operation and maintenance of facilities and equipment	No special legal treatment required

# Results of Evaluation from Institutional Aspect (3/7)

Human Resources and Facilities Financial Situation Others (Necessary of Change of Facilities regulations etc.)	Requiring personnel of project management and engineers  Enhancement of service system for water utilization, water charge for the new irrigation system and dam collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Requiring personnel of project management and engineers  Enhancement of service system for water utilization, water charge  for the new mid-scale irrigation system and construction project  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Requiring personnel of project management and engineers  Charge shakement of service system for water utilization, water charge for the new small-scale irrigation system and collection, and facility maintenance  Cooperation with WB irrigation rehabilitation project	Requiring personnel of project management and engineers for the Operation cost for personnel for any project implementation, operation, and facility maintenance collection, and facility maintenance of facilities and equipment	Personael of project management and engineers required Operation cost for personnel for No special legal treatment required implementation, operation, and maintenance of the new hydropower generation system construction project	Requiring personnel of project management and engineers for the Operation cost for personnel for new project management and engineers for the implementation, operation, and maintenance of the new multi purpose dam construction project onlection, and facility maintenance of facilities and equipment	Requiring personnel of project management and engineers Operation cost for operation and maintenance No special legal treatment required Enhancement of service system for water utilization, water charge for the new small-scale irrigation system and facility maintenance
Planned Organization	Re Operation and management division needs to be En established for the project implementation.  Co	M & I, APWME Kochani  Operation and management division needs to be Enertablished for the project implementation.  Co	PWME Vinica Communal Enferprise "Solidarnost" En Operation and management division needs to be constablished for the project implementation in CopwME Vinica.	PWME Kochani and PWME Vinica for Communal Enterprises "Kochani" and for "Solidarnost"  Operation and management division needs to be cestablished for the project implementation in PWME Kochani. Coordination system needs to be improved with PWME Vinica.	ECM Operation and management division needs Personnel of project management and engineers require to be established for the project implementation. Improvement of equipment for facility maintenance	PWME Probiship etc.  Communal Enterprise "Lindon" etc.  Operation and management division needs to be Established for the project implementation in PWME Probiship. The coordination committee needs to be established among the relevant PWMEs and Communal Enterprises.	R. Communal Enterprise "Linden" etc. E. Communal Enterprise "Linden" etc. E. Communal Enterprise "Linden" etc.
Purpose	A S S	M&IAP C C	M&IAP	MA A A O S O S O S O S	ਲ ਜ ਨ		<b>∀</b>
Project Name	Pelince Dam Project	Razlovci Dam Project	Blartec Dam Project	Rectani Muttipurpose Dam Project		Zletovica Multipupurpose M & I Dam Project	
ဦ နိ		A2-1	A2-2	A2-3		A2.4	
No.	<b> </b> =	21	ជ	14		15	

# Results of Evaluation from Institutional Aspect (4/7)

Municipal, industrial, agricultural water supply and hydropower development projects    Municipal, industrial, agricultural water supply and hydropower development projects   Others (Necessity of change of Purpose of Pur	P ECM Operation and management division needs to be Improvement of equipment for facility maintenance Operation and management division needs to be Improvement of equipment for facility maintenance of the new hydropower generation system construction project implementation. Operation cost for personnel for maintenance of facilities and equipment	Operation A PWME Ship Operation and management division needs to be Enhancement of service system for water utilization, water charge for the new small-scale irrigation system and collection, and facility maintenance catablished for the project implementation.  Cooperation with WB irrigation rehabilitation project	Power M & I. A PWME Prilep  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Communal Enterprise "Komunalec-Prilep"  Enhancement of service system for water thilization, water charge for the new medium-scale irrigation system  and dam construction project  Cooperation with WB irrigation rehabilitation project  Cooperation with WB irrigation rehabilitation project	Project A PWME Prilep  Requiring personnel of project management and engineers for the Operation cost for operation and maintenance No special legal treatment required coordination committee for managing and multi dam construction and operation and facility maintenance management and operation of each project.  A Coordinating multiple dam construction projects Enhancement of service system for water utilization, water charge multiple dams construction project and facility maintenance.  Cooperation with the MAFWE extension services  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Requiring personnel of project management and engineers for the Operation and maintenance No special logal treatment required Operation and management division useds to be multi dam construction and operation and management division useds to be multi dam construction and operation and management division useds to be multi dam construction and management division useds to be multi dam construction and maintenance of the new small-scale irrigation system and engineers for the new small-scale irrigation system and construction project implementation.  Enhancement of service system for water utilization, water charge dam construction project construction and maintenance of construction and construction and construction and construction and construction and construction and construction and construction and construction and construction and construction and construction and construction and construction and constructi	Mark 1   Studenchica*   Requiring personnel of project management and engineers for the Operation cost for personnel for No special legal treatment required personnel for project management and management division needs to be new project established for the project implementation, and Enhancement of service system for water utilization, water charge of the new reservoir construction project the existing Studenchica needs to be strengthened.    A collection, and facility maintenance of facilities and equipment and maintenance of facilities and equipment the existing Studenchica needs to be serviced to the new reservoir construction project of the new reservoir construction project or new reservoir construction project or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new reservoir construction or new re	Requiring personnel of project management and engineers for the Operation cost for operation and maintenance No special legal treatment required Operation and management division needs to be multi dam construction and operation.    Application cost for operation and maintenance No special legal treatment required for the project implementation.   Enhancement of service system for water charge construction project construction project construction project
ydropower development pr pose Planned	P ECM Operation and manage established for the proj		k I. A PWME Prilep Communal Exterprise Operation and manage established for the proj PWME Prilep.				
ultural water supply and h		Coastruction of Irrigation Sub-system Shipsko Pole, left side	A3-1 Krapa Dam Project M4	Zhvan Dam Project Obednik Dam Project Kochishte Dam project Zhurche Dam Project	A3-6 Konjarka Dam Project	Studencica Supplemental Mater Supply Project	Petrushka Dam Project
ndustrial, agricu	og.	16 A2-5 C	7.1	18 A3-2 Z 19 A3-3 C 20 A3-4 K 21 A3-5 Z	22 A3-6 F	23 A3-7 S	24 A3-8 F
Municipal, h	,		Vardar River Lower Reach				

# Results of Evaluation from Institutional Aspect (5/7)

Municipal, ii	ndustri	al, agric	Municipal, industrial, agricultural water supply and hydropower development projects	hydrope	ower development projects			Other Merseign of whomas of
River Name	ò	eg &	Project Name	Purpose	Planued Organization	Human Resources and Facilities	Financial Situation	others (Necessary of change of regulations etc.)
	22		Kovanska Dam Project	⋖	PWME Gevgeijja Operation and management division needs to be a established for the project implementation.	Requiring personnel of project management and engineers for the multi dam construction and operation Enhancement of service system for water utilization, water charge collection, and facility maintenance Cooperation with the MAFWE extension services Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance for the new small-scale irrigation system and dam construction project	No special legal treatment required
	7 92 7	A3-10	Konsko Dam Project	M&I,A	M & I, A PWME Gevgelija Communal Enterprise "Gevgelija" Operation and management division needs to be established for the project implementation in PWME Gevgelija.	Requiring personnel of project management and engineers for the Operation cost for operation multi dam construction and operation  Enhancement of service system for water utilization, water charge and dam construction project collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	nd maintenauce gation system	No special legal treatment required
	27	A 11-A	Valandovo Area Irrigation Project	R	PWME Valandovo Operation and management division needs to be established for the project implementation.	Requiring personnel of project management and engineers for the imparitor ocst for operation and maintenance multi dam construction and operation.  Enhancement of service system for water utilization, water charge collection, and facility maintenance.  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance for the irrigation system rehabilitation project	No special legal treatment required
Cm Drim River Basin	78	A4-1	Irrigation System Betterment Project in Resen	IX	PWME Resen Operation and management division needs to be established for the project implementation.	Requiring personnel of project management and engineers for the multi dam construction and operation  Bubancement of service system for water utilization, water charge collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance for the irrigation system rehabilitation project	No special legal treatment tequired
·	53	A4-2	Ohrid Area Irrigation Rehabilitation Project	2	PWME Ohrid Operation and management division needs to be established for the project implementation.	Requiring personnel of project management and engineers for the multi dam construction and operation Enhancement of service system for water utilization, water charge collection, and facility maintenance Cooperation with the MAFWE extension services Cooperation with WB irrigation rehabilitation project	Operation cost for operation and maintenance No special legal treatment required for the irrigation system rehabilitation project	No special legal treatment required
Strumica River Basin	31	A5-1	Podares Dan Project	M&I	PWME Strumica Communal Enterprise "Strumica" Operation and management division needs to be established for the project implementation in PWME Strumica.	Requiring personnel of project management and engineers for the Operation cost for operat multi dam construction and operation  Enhancement of service system for water utilization, water charge dam construction project collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB tringation rehabilitation project	Operation cost for operation and maintenance No special legal treatment required for the new small-scale irrigation system and dam construction project	No special legal treatment required
· · · · · · · · · · · · · · · · · · ·	32	A5-2	Oraovica Dam Project	M&E	PWME Strumica Communal Enterprise "Strumica" Operation and management division needs to be established for the project implementation in PWME Strumica.	Requiring personnel of project management and engineers for the new project Enhancement of service system for water utilization, water charge collection, and facility maintenance Technical support from IHP and PWME HQ (WDI). Cooperation with the environmental protection projects of the Macedonian government and/or donors	Operation cost for operation and maintenance No special legal treatment required for the new dam construction project	No special legal treatment required

# Results of Evaluation from Institutional Aspect (6/7)

Other Money in of chance of	Olders (Necessaly of change of regulations etc.)	No special legal treatment tequired	No special legal treatment required		Consistency with the Output of PCM Workshop	No special legal treatment required	No special legal treatment required	No special legal treatment required	No special legal treatment required	No special legal treatment roquired	No special legal treatment required
	Financial Situation	Operation cost for operation and maintenauce for the irrigation system rehabilitation project	Operation cost for operation and maintenance for the irrigation system rehabilitation project		Social Consideration	New financial system needs to be established Operation cost for facility maintenance through collected water charges	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges
	Human Resources and Facilities	Requiring personnel of project management and engineers for the multi dam construction and operation  Enhancement of service system for water utilization, water charge collection, and facility maintenance  Cooperation with the MAFWE extension services  Cooperation with WB irrigation rehabilitation project	Requiring personnel of project management and engineers for the multi dam construction and operation Enhancement of service system for water utilization, water charge collection, and facility maintenance Cooperation with the MAFWE extension services Cooperation with WB irrigation rehabilitation project		Socioeconomic Impact	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	Institutional strengthening and personnel training are necessary Maintenance system of network facilities
Municipal, industrial, agricultural water supply and hydropower development projects	Planned Organization	PWME Strumica Communal Enterprise "Strumica" Operation and management division needs to be stablished for the project implementation in PWME Strumica.	PWME Strumica Communal Enterprise "Strumica" Operation and management division needs to be established for the project implementation in PWME Strumica.		Fulfiliment of BHN	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprise "Tetovo".	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprise "Kichevo".	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprise "Vodovod".	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprise "Vodovod".	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprises "Kliva Palanka" and "Kumanovo".	Establishment of Rural Water Supply Unit Project Coordination Committee ueeds to be established in Communal Enterprises "Veies" and "Sktip".
d hydrop	Purpose	교	ਕ		Purpose	RS	RS	RS	RS	RS	RS
cultural water supply at	Project Name	Mantovo Area irrigation Project	Stromica Area Irrigation Project	50	Project Name	Vardar River Upper Reach Rural Water Supply Project	Treska River Upper Reach Rural Water Supply Project	Petrovec Rural Water Supply Project	Skopje Circle Rural Water Supply Project	Kriva Palanka/Kumanovo Circle Rural Water Supply Project	Bregalnica River Basin Rural Water Supply Project
trial, agri	Code	<u> </u>	AS-4	rly projec	ခိုင် နှင့်	34 B1-1	35 B1-2	36 B1-4	37 B1-5	38 B1-6	39 B2-1
Municipal, indus	River Name No.	33	£. ₹	Rural water supply projecs	River Name No.	Vardar River Upper Reach	m m	П	ļe .	ĬĢ.	Vardar Middle Reach

# Results of Evaluation from Institutional Aspect (7/7)

River Name	Š	ap o	Project Name	Purpose	Planned Organization	Human Resources and Facilities	Financial Situation	Uthers (Necessity of change of regulations etc.)
Vardar Lower Reach		1	Pelagonija Circle Rural Water Supply Project	RS	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprises "Krushvo", "Prilep", and "Bitola".	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	New financial system needs to be established No special logal treatment required Operation cost for facility maintenance through collected water charges	No special legal treatment required
	14	41 B3-3	Medzitija Rural Water Supply Project	RS	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Euterprise "Bitola".	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	New financial system needs to be established. No special legal treatment required Operation cost for facility maintenance through collected water charges	No special legal freatment require
Vardar Lower Reach/ Strumica	1	42 B4-1	Vardar River Lower Reach/Strumica River Basin Rural Water Supply Project	RS	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprises "Gevgeljia" and "Strumica".	Institutional strengthening and personnel training are necessary Maintenance system of actwork facilities	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	No special legal treatment sequired
Cm Drim	43.1	43 B6-1	Southwest Mountains Area Rural Water Supply Project	RS	Establishment of Rural Water Supply Unit Project Coordination Committee needs to be established in Communal Enterprises "Ohrid" an "Debar".	Institutional strengthening and personnel training are necessary Maintenance system of network facilities	New financial system needs to be established No special legal treatment required Operation cost for facility maintenance through collected water charges	No special legal treatment required
Nationwide	44	44 B6-1	Nationwide Rural Water RS Supply Extension/Improvement Project	RS	National Steering Committee of the Rural Water Supply Projects consisting of representatives of Communal Enterprises needs to be established in cooperation with MUPCE and MAKKOM.		I	1

