10. Cost Estimates

BIRZAI CASE 1 - ANAEROBIC-AEROBIC-AERATION (A2O)

CONSTRUCTION COST SUMMARY

		Amount (Litas)	Remark
Construction Cost			
Treatment Plant (secondary treatment process)			
1 Structures		2,276,048	
1 Grit chamber	14,771		
2 Parshall flume	8,210		
3 Splitter Box	5,481		
4 Completion of structures of reaction tank and sedimentation tar	139,058		
5 Modification of sedimentation tank structure	127,461	1	
6 Final sedimentation tank	561,028		
7 Sludge thickener	89,926		
8 Sludge storage tank	72,311]	
9 Sludge treatment building	157,300		
10 Sludge storage yard	482,646	}	
11 Administration building	587,853		
12 Miscellaneous structures	30,000		
2 Earth Work		9,796	
3 In-plant Piping		135,348	
4 Site Development		537,123	
5 Water Supply Facility		100,000	
6 Landscaping		50,000	
7 Plant Equipment		4,550,000	
Treatment plant (secondary tr	reatment process)		

BIRZAI CASE 1 - ANAEROBIC-AEROBIC-AERATION (A2O)

								-
Structures 1 Osit chamber						*		
	W (m)	(m)		A (m2)				-
Foundation	2.0	12.0		24.0	#5 #5	27	25	1,520 Toundation base
Concrete Works (incl. Re-bar)	W (m)	L (m)	H (m)	V (m3)	1		- 4	
Hase Slab	2.0	12.0	0.2	8.4	Ē		8/8	4,214 Site concrete
Well	0.5	25	1.0	5.6	£.	5.6	1,196	6,698 site concrete
Miscellaneous (10% of above)	10% of above)			1.0	m3	0.1	1,196	1,196 site concrete
[= 010 Month of the control of the	work etc = 10%	of the cos	0% of the cost of above)		L.S.	1		1,343
Wiscondinated works (managed)				sub-total				14,771
2 Parchall flume								
Arran vianta	W (m)	t (m)		A (m2)			•	
Foundation	1.2	8.3		10.0	m ₂	10.0	55	248 foundation base
Concrete Works (1901 Re-har)	(m) //	[E(B)	H(m)	V (m3)				
Actor and and an arrange	12	3.3	0.2	2.0	E	2.0	878	1,749 site concrete
DESC SING	. 5	16.6	10	en en	m3	3.3	1,196	3,971 site concrete
with w	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	?		-	m3	1.0	1.196	1,196 site concrete
Miscellancous (10% of above,	10% of above)	•		2:) L	-	•	746
Miscellaneous works (handrail, metal work etc. = 1	work etc. = 10%	of the cos	0% of the cost of above)		4.5.		+	\$ 210
				suo-total				01410
3 Splitter Box	,			(6.2)				
	(m)	E)		A (1112)	(- t	V	And address of the
Foundation	2.4	3.2		7.7	Ĕ	: 	?	
Concrete Works (incl. Re-bar)	W (m)	L(m)	H(m)	V (m3)	•		į	0,00
Base Slab	2.4	3.2	0.2	5:1	Ê	1.5	9/9	araionea arresta
Well	0.2	11.2	1.2	2.7	m3	2.7	1,196	3,215 site concrete
Miscellaneous (10% of above	10% of above)			0.0	E.	0.0	1,196	O site concrete
at the plant [respects] species accomplishing	work etc. = 10%	of the cos	()% of the cost of above)		L.S.	1		499
MINOR MOUNT (MANAGEMENT)				sub-total				5,484
A Completion of structures of reaction tank and sedimentation bank	d sedimentation	tank						-
	W (m) L (m)	L(m)		A (m2)				
Foundation				644,0	겉	644.0	55	35,420 foundation base
Concrete Works (inc.) Robar)	(m) //	(m)	H(m)	V (m3)				
Rase Clab				94.0	Ę	94.0	878	82,532 site concrete
Vicil Vicil				22.0	m3	22.0	1,196	26,312 site concrete
Manager (109), of shows	10% of above)			12.0	Ę	12.0	1.196	14,352 site concrete
The state of the s	to de de mosto)	of the cor	()% of the cost of shove)		L.S.			15,862
Miscellancous works (nandrall, michal	WULL CIL AU/O	OF OTHER PO	1000					

sheet 2 of 6

BIRZAI CASE 1 - ANAEROBIC-AEROBIC-AERATION (A20)

STATISTICATION COST DETAILS										
Tem						nuit	Quantity	unit cost	Amount	Kemark
S Madification of sedimentation tank structure										
JAIOGHIAGHIAG AN SACHAMANNA MANNA SACHAMANNA MANNA SACHAMANNA SACH										
כסווגפערפס נס ביל חילוווופווו נאסווו	(m) /W	(m)			A (m2)					••
	(III) M	C (111)			0 300	í	486	35		26.730 foundation base
Foundation -	0.6	¥ ⊃			0.004	1	3	;		
Concrete Works (incl. Re-bar)	(m) ∧	L(m)	(B)		V (m3)			į		
Asia Salah					14,0	E.	19	878	9	16,682 site concrete
	All of physics				1.0	m3	-	878		878 site concrete
Miscellancous (10% of acove)	076 Ut 20095)				200	7	407	ç	•	
Sand filling					0.080	3	200	-		
Pre-Cast Concrete Panel Work										
	11.6.1	113	(1)		A (m2)					
	(⊞) *	L(E)	(m)		77,1115	((accorder)
Top slab	9.0	4. 0.4			486.0	E	480	*		co, 124 pro-east sade parter
Management mork (handrail metal work etc. = 10% of the cost of above)	%01 = 10%	of the cost	of above)			S.	g = 2		11,587	
Misocalalicous works (named any more					letot-dus				127,461	
				į						
6 Final sedimentation tank										
	(E) ∧	L(m)		<u>۔</u>	A (m2)					,
The state of the s	22.0	22.0		7	968.0	m2	896	55		53,240 foundation base
roundation	777		1	ç	V (m3)					
Concrete Works (incl. Re-bar)	œ) M	(E) ^	m) u	j.	(20)	,	6	020	·	254 971 site concrete
Base Slab	22.0	22.0	0.3	7	290.4	Ê	7.30	0/0		212120000000000000000000000000000000000
Miscellaneous (10% of above)	10% of above)				29.0	Ē	23	8/8		לייל לייל אוני כסוות בוכ
Pre-Cast Concrete Panel Work										
		Ľ E	H(m)	ű.	A (m2)					
ile//i		999	4	2	528.0	<u>2</u>	528	334		176,352 pre-cast wall panel
A fine the second to a property of the second secon		of the cos	(% of the cost of above)			5.7	-		51,003	3.
Miscellancous works (naudian, mea			72.22		sub-total				561.028	8
2 Clades plaintenant										
) Studge the Active	W (m)	L (m)			A (m2)					
doitabany	7.6	9.2			57.8	Щ.	57.8	\$\$		5,177 foundation base
Canada Marie (na. 100)	(m) /N	(a)	H (m)		V (m3)					
CONCINCT WORK THE CASE CASE	76	7,4	60		173	m3	17.3	878		15,214 site concrete
Dase State	5 ° C	5.5	. 4		36.4	£	36.4	1,196	-	43,564 site concrete
Towards	7.6	4	Ç		11.6	É	11.6	1.195		13,816 site concrete
1 op sido	(a)	?	!		· ·	Ë	5.0	1.196		5,980 site concrete
Miscellancous (10% of above)	10% of above)) One of the part of thousal		2		-			-ix
Miscellancous Works (nandrall, metal Work etc	WOLK CIC 1076	on no	(3) arca (3)		sub-total			-	89,926	15
					SECTION S					

detail

BIRZAI CASE I - ANAEROBIC-AEROBIC-AERATION (A2O)

CONSTRUCTION COST DETAILS		n	unit Quantity	iity unit cost	Amount	Kemark
8 Sludge storage tank	ļ					
Foundation	W (m) L (m) (122) (122) (123) (123) (123)		m2 35.0	25		1,923 foundation base
Concrete Works (incl. Re-bar)	n) [r					
Baco Clab	7.6 0.3	•	_			ATO SHE COHOLE
11/21 11/21	5 31 4.7		m3 36.4	1,196	4	concrete
wall	46 03					5,061 site concrete
dels do l	i;;					5.980 site concrete
Miscellancous (10% of above)	% of the cost of above)		L.S. 1			
Miscellancous Works (nanutali, meta	WORK SIGN TO SOLVE THE SOL	sub-total			72,311	
9 Sludge treatment building		-	m2 130	012,10	157,300	
Charles and an extension of the Charles						
10 Singge Storage yard	L (m) no.					
Foundation	12.1 24.0 1 290.4		m2 290.4	.4 55		15,972 foundation base
	L (m) H (m)					lonen dele seco
Concrete base (d=0.2 m)	24.0 0.2 1	_	m5 53.1	6/9		50.5% process sino paris
	.00		790.4	1 390		403 656 steel frame, tin-plate roofing
Roofing	24.0					•
	L (m) H (m) no. A	_		222	700 61	
Pre-cast side wall panel	36.0 1.0 1 36.0		70.0c			
		sub-total			482,646	
11 Administration building			#2 441	1 1.333	587.853	
			-			
				_		

sheet 4 of 6

BIRZAI CASE 1 - ANAEROBIC-AEROBIC-AERATION (A2O)

CONSTRUCTION COST DETAILS	VIII.S		unit	Ouantity	unit cost	Amount	Remark	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1								
12 Miscellancous structures								
sand ped								
Wastewater pit	***************************************							
			L.S.			30.000		
2 Earth Work								
1 Final sedimentation tank	305 00		£	985	2.15	2.118		
2 Sludge lagoon			<u>1</u> 3	1.740	2.15	3,741		
2 Backfill to the existing ground	punox					,		
Final sedimentation tank	in tank		m3	142	5.35	2007		
						••••		
3 Fill above the existing gr	Fill above the existing ground (use excess soil from excavation)		m3	2,583	1.23	3,177	3,177 = balance of excavation and backfil	d backfill
		sub-total				962.6		
3 In-plant Piping (all pipes laid in 1.0 m depth)	in 1.0 m depth)							
use	from	2				•	-	naterial
1 Sewage	End of the existing pressure line	Grit chamber	£	8	302	18,120		DIP
2 Sewage	Grit chamber	Parshall flume	E	'n	156	780	mm	රි
3 Sewage	Parshall flume	Reaction tank	E	20	351	17,550	300 mm C	ulvert
4 Sewage	Reaction tank	Final sedimentation tank	ε	န္တ	156	12,480	WE	បិ
5 Treated sewage	Final sedimentation tank	Effluent pump pit	E	8	201	16,080	an an	ව
6 Secondary sludge	Final sedimentation tank	Sludge thickener	E	75	87	6,525	100 mm Pr	Ş
7 Thickened sludge	Sludge thickener	Sludge treatment building	E	15	87	1,305	mm.	Ş
8 Return sludge	Sludge pump room	Reaction tank	E	110	118	12,980	200 mm P	Ş
9 Return supernatant	Studge thickener	Wastewater pit	E	45	82	3,915	mm	ΩX
10 Return supernatant	Control building (dewatering)	Wastewater pit	ε	65	87	5,655	100 mm	Ω
11 Scum	Final sedimentation tank	Wastewater pit	٤	જ	\$7	4,350	mm	ပ္
12 Return wastewater	Wastewater pit	Orit chamber	E	150	87	13,050	E E	Š
13 Miscellancous Works	(20 % of the Total Cost of In-plant Pipings)					22.558	100 mm	ΛĊ
		lator-dus				135,348		

BIRZAI CASE 1 - ANAEROBIC-AEROBIC-AERATION (A2O)

Ouantity unit cost Amount Remark		90	710 70 07,000	1 1951 1951		3.380 112 378,560		87,032 87,032	537.123	
unit			E		3	Ę	1	S.	L	al
CONSTRUCTION COST DETAILS	Item	4 Site Development		1 Fence	•	2 Gate	2 In a law Dood (will 4 to school navement)		4 Yard Lighting	\$10-100

5 Plant Equipment

sheet 6 of 6

BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

CONSTRUCTION COST SUMMARY

			Amount (Litas)	Remark
Con	struction Cost			
Frea	itment Plant (secondary treatment pro-	cess)		
1	Structures		4,586,944	
	1 Grit chamber	14,771		
	2 Parshall flume	8,210		
	3 Spitter box	5,484		
	4 Oxidation ditch	2,475,743		
	5 Sludge pump house	101,673		
	6 Final sedimentation tank	561,028		
	7 Sludge thickener	89,926		
	8 Sludge storage tank	72,311		
	9 Sludge treatment building	157,300		
	10 Sludge storage yard	482,646		
	11 Administration building	587,853		
	12 Miscellaneous structures	30,000		
2	Earth Work		12,069	
3	In-plant Piping		84,384	
4	Site Development		537,123	
5	Water Supply Facility	Ī	100,000	
6	Landscaping		50,000	
7	Plant Equipment		4,182,000	
	Treatment plant (secondary t	treatment process)	9,552,520	
				·
		1		
		1		
	Total Construction Cost		9,552,520	

BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

CONSTRUCTION COST DETAILS			ļ						Demonstr
Item					TIUD.	Cuantity	anii cosi	Anothin	A Printer N
1 Structures									
1 Grit chamber									
	Œ) ≯	L(m)		A (m2)					
Foundation	2.0	12.0		24.0	#2 #2	2,0	55	1,320	1,320 foundation base
Concerns Works (inc.) Re-hat)	(m) M	r (m)	ξ Ή	V (m3)					
Acts and	2.0	120	0.2	30,	m3	4 ,	878	4,214	4,214 site concrete
0455 5140	6	e,	0	5.6	ĘË	5.6	1,196	-	6,698 site concrete
THE MA	1	ì	:	-	33		1 196		196 site concrete
Miscellancous (10% of above)	(10% of above)	of the cos	of about)). -	T S	-			
Miscellancous works (nandrall, metal work cit 10/4 vi ut cost of cost of	ii work cit 10	200	(2)	substate				14.771	
				200					
2 Parshall flume				•				- -	_
	(æ) M	[(m)		A (m2)					,
7	1.2	8.3		10.0	ᆵ	10.0	25		548 foundation base
Countration (See De bor)	(m) (M)	(m)	H (m)	V (m3)					=
Concrete works (like: Notice)		8.3	0.2	2.0	m3	2.0	878		,749 site concrete
DESC 5250	i (16.6	07	ε, ε,	Ę	3.3	1,196		3,971 site concrete
Wall	***) •	•		, E	10	198		1.196 site concrete
Miscellaneous (10% of above)	(10% of above)	;		7:1	2 .	? - -			
Miscellaneous works (handrail, metal work etc. = 10% of the cost of above)	il work etc. = 10%	of the cos	t of above)		3			0+/	
				sub-total				8.210	
3 Spitter box				!	_				-
•	W (m)	L(m)		A (m2)					,
Foundation	4.2	3,2		7.7	星	<u></u>	55		422 foundation base
Converse Works (incl. Re-bar)	W (m)	(E)	E) H	V (m3)					
Base Slah	2.4	3.2	0.2	1.5	m3	1.5	878		1,349 site concrete
Wall	0.2	11.2	1.2	2.7	m3	2.7	1,196		3,215 site concrete
Miscellaneous (10% of above)	(10% of above)			0.0	m3	0.0	1,196		0 site concrete
Adjust the cost of above)	at work etc = 10%	6 of the cos	t of above)		L.S.	,		499	
Miscellancous Works (Italionan, Incom	The state of the s			sub-total				5,484	

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BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

W (m) L (m)										
n Works (inc Conerete P?										_
Foundation Concrete Works (incl. Re-bar) Base Slab Outer Wall (curved w Miscellaneous (10% of Pre-Cast Concrete Panel Work	(m) ⁄V	L(m)			A (m2)					
Concrete Works (incl. Re-bar) Base Stab Outer Wall (curved w Miscellaneous (10% of Pre-Cast Concrete Panel Work Outer Wall	50.0	80.0			4000.0	£	4,000.0	\$\$		220,000 foundation base
Base Stab Outer Wall (curved w Miscellaneous (10% of Pre-Cast Concrete Panel Work Outer Wall	W (m)	L(m)	E) I		V (m3)					
Outer Wall (curved w Miscellaneous (10% of of Pre-Cast Concrete Panel Work Outer Wall	50.0	0.08	9,0		1600.0	m3	1,600.0	878		1,404,800 site concrete
Miscellaneous (10% of Pre-Cast Concrete Panel Work Outer Wall	0.3	142.0	3.5		149.1	m3	149.1	1,1%		178,324 site concrete
Pre-Cust Concrete Panel Work Outer Wall	other cone	rete volum			175.0	E	175	1,196		209,300 site concrete
<u> </u>	(m) ≫	(m)	H(B)		A (m2)					
12 may 14 may 12		186,0	3.5		651.0	길	315	334		105,210 pre-east wall panel
		452.0	3.5		1582.0	a2	210	8		20,580 pro-cast wall panel
dela aped	8.8	25.0			162.5	m ²	163	134		21,775 pre-cast wall panel
	. v				5 691	m2	163	73		11,863 pre-cast wall panel
opis do		2 9	0			ć	236	334		78.824 pre-cast wall panel
Wall		2 .	2 · ·			1 5	} -	;		
Miscellancous works (handrail, metal work etc. = 1	ctc. = 10%	.0% of the cost of above	of above)	١	1-1-1-1	.6.7			2 475 743	
					Sub-loan.					
Soludge pump nouse	111/11	(1)			A /m2)					
	(III) M	L(11)			200	- ÇE	Š	\$5		5.198 foundation base
	2.	G. (;			*	;	:		
i	(a) ∧	[(m)	H (m)		V (m3)					200 con con (007)
Base Slab	7.0	13.5	4.0		37.8	Ë	<u> </u>	0/0	-	Sic wirece
Miscellancous (10% of above)	(above)				.0.4	Ę	4	878		3,512 site concrete
Pre-Cast Concrete Panel Work										
	(Œ) ≱	(m)	H (m)		A (m2)					
Top slab	7.0	13.5	į		94.5	ם	8	134		12,663 pre-cast slab panel
Underground wall		37.0	4,4		162.8	교	163	334		54,375 pre-cast wall panel
Miscellancous works (handrail, metal work etc. =		of the cost	(0% of the cost of above)			1.5.	-		9.243	
					sub-total				101,673	
6 Final sedimentation tank					.					•
•	(m)	(<u>a</u>)		ė,	A (m2)	•				Conf. active Asset Co.
	22.0	22.0		?	968.0	72	806	Ĉ.		TOURNAMED DANCE
Concrete Works (incl. Re-bar)	(m) W	L (m)	H (m)	no.	V (m3)					
1	22.0	22.0	0.3	2	290.4	m3	230	878	C.4	254,971 site concrete
Miscellancous (10% of above	(above)				29.0	m3	52	878		25,462 site concrete
Pre-Cast Concrete Panel Work										
		(m)	H (m)	no.	Λ (m2)					
Wall		0.99	4	۲4	528.0	Ę	\$28	334		176,352 pre-cast wall panel
Miscellaneous works (handrail, meta) work etc. #		of the cost	10% of the cost of above)			L.S.	-		51.003	

BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

W (m) 1	W (m) L (m) Yorks (incl. Re-bar) W (m) L (m) Base Slab A.6 7.6 0.3 Wall 0.25 31.0 4.7 Top slab 7.6 7.6 0.2 Miscellaneous (10% of above) ous works (handrail, metal work etc. = 10% of the cost of above) In W (m) L (m) W (m) H (m) Works (incl. Re-bar) W (m) L (m) W (m) L (m) W (m) A.6 7.6 Wall 0.25 31 4.7	(m2)	1				
ks (incl. Re-bar) W (m) L (m) H (m) / Km3 A (m2) / Km3 A (m3) / Km3 <	W (m) L (m) 7.6 7.6 7.6 7.6 Base Slab 7.6 7.6 7.6 7.6 7.6 0.25 31.0 4.7 4.7 Top slab 7.6 Miscellaneous (10% of above) our works (handrali, metal work etc. = 10% of the cost of above) in W(m) in 4.6 in 4.7 in 4.7 <	(m ₂)		-	-		
ks (incl. Re-bar)	W (m) L (m) 7.6 7.6 7.6 7.6 7.6 7.6 Wall 7.6 Top slab 7.6 Miscellaneous (10% of above) ous works (handrail, metal work etc. = 10% of the cost of above) ink W (m) Vorks (incl. Re-bar) W (m) Wall 1.6 Wall 1.7 Wall 1.6 Wall 1.7 Wall 4.7	(m2)		_		_	
See State	ks (incl. Re-bar) (incl. Re-b				•		6 3
Second S	ks (incl. Re-bar) W(m) L(m) H(m) Base Slab 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.	57.8	겉	57.8	2	5,177	toundation case
Note	No.	(m3)				•	
Wall 0.25 3.10 4.7 36.4 m3 36.4 1,196 1.196	Base Slab		Ę	17.3	878	15,214	site concrete
Wall	Wall	26.4	m3	36.4	1.196	43.564	site concrete
Top slab 7.6 7.6 0.2 11.5 m3 5.0 1.196	Top slab Top slab Miscellaneous (10% of above) works (handrail, metal work etc. = 10% of the cost of above) W(m) L(m) W(m) L(m) W(m) H(m) W(m) L(m) W(m) L(m) W(m) L(m) W(m) L(m) W(m) W(m) L(m) W(m)	r \		7	, 104	12.816	site constructe
Niscellaneous (10% of above) S.0 Miscellaneous (10% of above) S.0 L.S. 1 1.1990	Miscellaneous (10% of above) s works (handrail, metal work etc. = 10% of the cost of above) W(m) L(m) W(m) L(m) A 6 7.6 W(m) L(m) H(m) Wall Wall 0.25 31 4.7	0.11	Ē,	2.4.		000	
W (m) L (m) A (m2) M2 M2 M2 M2 M2 M2 M2	W (m) L (m) H (m) W (m) L (m) W (m) L (m) H (m) W (m) W (m) L (m) H (m) W (m	5.0	E,	 0	0 7:	00%.0	Sile concrete
ks (incl. Re-bar)	W (m) L (m) 4.6 7.6 4.6 7.6 W(m) L (m) H (m) 4.6 7.6 0.3 Wall 0.25 31 4.7		Sil	-		0/1/0	
No.	W (m) L (m) 4.6 7.6 4.6 7.6 W(m) L (m) H (m) 4.6 7.6 0.3 Wall 0.25 31 4.7	sub-total			1	07.4.68	
ks (incl. Re-bar) W(m) L(m) A(m2) A(m2) A(m3) M(m) L(m) W(m)	W(m) L(m) 4.6 7.6 4.6 7.6 8 Sase Slab 4.6 7.6 0.3 Wall 0.25 31 4.7	á			•		
ks (incl. Re-bar)	W(m) L(m) H(m) 4.6 7.6 0.3 0.25 31 4.7	(7W)	•	- (44	. 003	form dation back
ks (incl. Re-bar) W(m) L(m) H(m) V(m3) m3 10.5 878. Base Slab 4.6 7.6 0.3 10.5 m3 36.4 1.196 Wall 0.25 31 4.7 36.4 m3 36.4 1.196 Top slab 4.6 4.6 0.2 4.2 m3 5.0 1.196 Miscellancous (10% of above) 5.0 m3 5.0 1.196 Miscellancous (10% of above) 5.0 m3 5.0 1.196 Miscellancous (10% of the cost of above) 5.0 m3 5.0 1.196 iworks (handrail, metal work etc. = 10% of the cost of above)	W (m) L (m) H (m) 4.6 7.6 0.3 0.25 31 4.7	35.0	3 5	٠. ٥.	5	27.1	Manage Case
Base Slab	4,6 7.6 0.3 0.25 31 4.7	(m3)			į	0	
Wall	0.25 31 4.7	10.5	m3	10.5	878	×07.6	site concrete
Top slab	7.5 (7.0	16.4	33	36.4	1.196	43,564	site concrete
Top slab Top slab Miscellancous (10% of above) works (handrail, metal work etc. = 10% of the cost of above) Idding W(m) L(m) M(m) 1 290.4 W(m) L(m) H(m) N(m2) W(m) L(m) H(m) no. A(m2) W(m) L(m) L(m) H(m) no. A(m2) W(m) L(m) L(m) L(m) No. A(m2) W(m) L(m) L(m) No. A	CC	4.2	É	42	1.196	5,061	site concrete
Miscellaneous (10% of above) 2.0 m3 1.210	7.0 0.4	7.	. 1	V	100	2 080	erte concrete
idding works (handrail, metal work etc. = 10% of the cost of above) sub-total m2 130 1,210 m2 12.1 24.0 1 290.4 m2 290.4 1,390 m3 m3 28.1 878 m3 28.1		0.0	Ê,	? .	7.7	25.5 4	
Sub-total m2 130 1,210	Missellancous works (handrail, metal work etc. = 10% of the cost of above)		7			1	
1,210 1,21		sub-total	1			72,311	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1ge treatment building		- Z	130	1,210	157,300	
W(m) L(m) no A(m2) nz 290.4 55 12.1 24.0 1 280.4 1 280.4 55 W(m) L(m) H(m) V(m3) m3 58.1 878 W(m) L(m) H(m) no A(m2) m2 290.4 1,390 12.1 24.0 1 1 290.4 1,390 12.1 24.0 1 4 1,390 12.1 24.0 1 360 334							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						-	
12.7 24.0 1 290.4 m2 290.4 55.0 58.1 12.1 24.0 0.2 1 58.1 12.1 24.0 1 290.4 1.390 12.1 24.0 1 290.4 1.390 12.1 24.0 1.4 1 290.4 1.390 12.1 24.0 1.4 1.390 12.1 24.0 1.3	W(m) L(m) no	(m2)	•	- 80	3		form doritor back
W(m) L(m) H(m) V(m2) m3 58.1 878 12.1 24.0 0.2 1 58.1 878 W(m) L(m) no. A(m2) m2 290.4 1.390 12.1 24.0 1 0.0 A(m2) m2 290.4 1.390 12.1 24.0 1 4(m2) m2 36.0 334	12.1 24.0 1	290.4	25	4.06.	c C	716,01	TOURGANON OSSO
12.1 24.0 0.2 1 56.1 mo. A(m2) m2 290.4 1.390 m2 12.1 24.0 1.00 A(m2) m2 290.4 1.390 m2 250.4 1.300 m2 250.4 1.	W(m) L(m) H(m)	(m)	į	263	878	50.994	pre-cast slab panel
W(m) L(m) mo. A(mz) m.2 290.4 1.390 m.2 12.1 24.0 1.0 A(mz) m.2 36.0 334	12.1 24.0 0.2 1	20.1 (m2)	}				
12.1 (m) 10. A(m2) 2.5.0 10. 1 3.6.0 334	W (m) L (m) no.	700 T	3	290.4	1390	403,656	steel frame, tin-plate roofing
240 360 334	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(m2)	!	1			
	200 1001	1092	Ê	2,50	334	12.024	
A A A A A A A A A A A A A A A A A A A	-	•	}				
sub-fotal 482,646		sub-total				482,646	

BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

CONSTRUCTION COST DETAILS				•	
Item	nuıt	Cuantity	unit cost	Amount	Nemark
11 Administration building					
	3 2	<u>1</u>	1,335	287,85	
			1		
12 Miscellancous structures					
sand bed					
Wastewater pit				000	
	L.S.			30,000	
2 Earth Work		•			
1 Excavation					
1 Oxidation direh	33	1,920	2.15	4,128	
2 Final sedimentation ank	Ę	8	2.15	1,720	
3 Sludge thickener	33	8	2.15	215	
4 Sludge storage tank	m3	8	2.15	215	
\$ Sludge treatment building	m3	22	2.15	4	
6 Sindge storage yard	Ę	80	2.15	801	
7 Administration building	mg:	న	2.15	43	
2 Backfill to the existing ground					
1 Oxidation ditch	æ3	250	5.35	1,338	
2 Final sedimentation tank	5	120	5.35	803	
3 Sludge thickener	<u>3</u>	8	5.35	107	
4 Sludge storage tank	m3	9	5.35	¥	
5 Sludge treatment building	Ę	0	5.35	X	
6 Sludge storage vard	Ê	9	5.35	χ,	
7 Administration building	m3	음	5.35	X	
3 Fill above the existing ground (use excess soil from excavation)	m3	2,550	1.23	3,137	3,137 = balance of excavation and backfill
					max. height = 2.0 m
ta:or-qns				12,069	

sheet 5 of 5

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BIRZAI CASE 2 - OXIDATION DITCH AT THE EXISTING TREATMENT PLANT SITE

CONSTRUCTION COST DETAILED	AILS		unit	Ouantity	Ouantity unit cost	Amount	Remark	
[lem								
3 In-plant Piping (all pipes laid in 1.0 m depth)	in 1.0 m depth)						-	
	2003	2					01a.	maicha,
Scr	A SELECTION OF THE PROPERTY OF	Grit chamber	E	20	302	6,040	300 mm	DIP
- Sewage	omeend Sunsi	O	ŧ	C	156	995	400 mm	RCP
2 Sewage	Crit chamber	raishau mane	: :	2	351	13 660	300	C. Longe
2 Sewage	Parshall flume	Oxidation diffeh	ε	2		000.1	tunt oos	
	Oxidation ditch	Final sedimentation tank	E	30	156	4.680	450 mm	Ì
300 S	Circl eadimentation tank	Discharge outlet	8	8	156	7,800	400 mm	RCP
S Sewage	Filter sydning market and a first	Sludge thickener	E	ន	108	2,160	150 mm	PVC
4 Secondary Studge		Sludge treatment building	8	'n	108	540	150 mm	PVC
S Inckened Sudge	Studge unkacited	Ovidation ditch inlet box	8	80	118	9.440	200 mm	PVC
6 Return sludge	Studge pump room (at OD)	Continue description		; Ç	300	V 400	: <0 mm	OV9
7 Return supernatant	Sludge thickener	Wastewater pit	Ē	3 :	0	7	::::::::::::::::::::::::::::::::::::::) (
8 Return supernatant	Control building (dewatering)	Wastewater pit	ε	3	108	34.4	EEE OCT	٠ ١
	Final codimentation tank	Wastewater pir	٤	Š	108	5.48	150 mm	PVC
10 Detroit months	Westminer	Grit chamber	£	9	87	4,350	100 mm	PVC
IV Neturn wasteward						14.064		
11 Miscellaneous Work	(20% of the total in-plant pipe work)	EAVA M	16			84 384		
		NUD-IOIAN				1000		
4 Site Development				i	č	000		
1 Fence			E	2	2,0	790,00		
2 Gate			muit	_ 	1,951	1,951		
3 In-plant Road (w = 4 m, asphalt pavement)	asphalt pavement)		m2	3,380	77	378,560		
4 Vard Lighting			L.S.	_	87,032	87.032		
8		sub-total	.1			537,123		
C Dient Formannent								

Birzai Treatment Plant Tertiary Treatment System

Structural Works

		unit	quantity	unit cost	Amount
1	Foundation	m3	32	757	24,211
2	Reinforcing Wall	m3	60	1,173	70,356
3	Brick Wall (40 cm)	m2	72	247	17,784
4	Pillar Foundation	m3	9	757	6,809
5	Pre-Cast Pillar	m3	7.7	1,595	12,282
6	Steel Beam	ton	2.3	7,835	18,021
7	Pre-Cast Recovering (RF)	m3	10.2	1,200	12,239
8	Pre-Cast Recovering (1F)	m3	4.5	1,200	5,400
9	Roof	m2	128	268	34,278
10	Pre-cast Stairs	m3	2	1,119	2,239
11	Blower Foundation	m3	1.3	486	632
12	Doors	m2	4.5	1,671	7,517
13	Windows	m2	7.2	619	4,455
14	Interior Work	L.S.	1		63,776
	·			Total	280,000

Birzai Effluent Pipe Cost Estimates

Length=	7,000	material		
Item	labor	material	equipment	total
Summary of Work				
Pavement demolition/restoration	45,411	61,031	775,148	881,590
Pipeline Construction Work	586,113	3,620,082	1,314,259	5,520,454
River Crossing Civil Work	27,486	155,740	76,862	260,089
Temporary road for construction	28,048	397,296	237,890	663,233
Grand Total	687,058	4,234,149	2,404,159	7,325,366
unit cost per meter of length	98	605	343	1,046

(1)

ltem	labor	material	equipment	total
Pavement demotition/restoration				
direct construction cost	18,127	45,650	579,793	643,570
indirect cost	27,284	15,381	195,355	238,020
Sub-total Construction cost	45,411	61,031	775,148	881,590
Pipeline Construction Work				
Earth work	102,036	112	729,320	831,468
dewatering	-	-	128,275	128,275
Pipe foundation	11,539	68,600	3,773	83,912
Pipe/valve material and installation	55,191	2,287,453	56,269	2,398,913
Manhole Construction Work	21,162	91,502	11,018	123,682
Oher work	9,530	131,130	7,569	148,229
direct construction cost	199,458	2,578,797	936,224	3,714,479
indirect cost	386,655	1,041,285	378,035	1,805,975
Sub-total Construction cost	586,113	3,620,082	1,314,259	5,520,454
River Crossing Civil Work	<u> </u>			
direct construction cost	10,972	116,490	57,491	184,953
indirect cost	16,514	39,250	19,371	75,136
Sub-total Construction cost	27,486	155,740	76,862	260,089
Temporary road for construction				
direct construction cost	11,196	297,168	177,936	486,300
indirect cost	16,852	100,128	59,954	176,933
Sub-total Construction cost	28,048	397,296	237,890	663,233

Objektinė sąmata Nr.: 1 Sudaryta 1998.07.01 kainų lygiu

Komplek E-0001 Orientacinė statybos kaina Objektas Birzai (Sewerage-Main SK-5)

Hil.	Bil. Sąmatos	Lokalinės sąmatos	Ticsiogi	nės išlaidos	(t. Lt)	Sąmatinė kaina (t. Lt)			
Nr.	kodas	pavadinimas	Darbo užmokestis	NAかけ21200Aに	Mechaniz mai	Statybos ir montavimo darbai	[rengimai	Viso	
1	2	3	4	5	6	7	8	9	
1	1	Destroying-Rebuilding Works	18.127	45.650	579.793	881.515		881.515	
2	2	Outer Sewerge	232.117	3181.644	975,320	6138.121		6138.121	
3	3	Diuker	10.972	116.490	57.941	260.643		260.643	
4	4	Temporary Road	11.196	297.168	177.936	663.188		663.188	
		Iš viso	272.412	3640.953	1790.990	7943.466		7943.466	

Projekto vadovas	
Suďarė	S.Posaškov

Sudaryta 1998.07.01 kainų lygiu.

Kompleksas: E-0001 Orientacinė statybos kaina Objektas: Birzal (Sewerage - Main SK-5)

Žiniaraštis: Destroying-Rebuilding Works

Iš viso už 881 515 Lt

Eil.	Darbo	Darbų ir išlaidų	Mate			Tiesloginės i	šlaidos (Litai	is)
Nr.	kodas	aprašymai	vnt	Kiekis	Darbas	Medžiagos	Mecha- nizmai	Iš viso
1	2	3	4	5	6	7	8	9
		S9-Specifiniai darbai						71.88
		S10-Sezoniuial darbai						2354.72
1	N27-37	Asfaltbetonio dangos 100 mm	100 m3	0.18	230.06		485.10	715.16
	(\$9≃1.085	sluoksnio storio išardymas					İ	
	S10=1.15)	pneumoplaktuko pagalba						
2	N1-352	Retų krūmų ir smulkaus miško	ha	0.404	46.95		426.63	473.58
	(S10=1.15)	nuvalymas nuo paviršiaus, kai				i]	
		gruntai natūralūs						
3	N1-94	I grupės grunto kasimas ir	1000 m3	38.1		1	17903.19	17903.19
		perstümimas iki 10m atstumu						j
		55 kW (75AJ) galingumo						
		buldozeriais			<u> </u>			
4	N1-95	Kickvieniems sekantiems 10m,	1000 m3	38.1			49480.47	49480.47
1	(K8=3)	perstumiant I grupės gruntą			ļ		1	
		55kW (75AJ) galingumo	Ì	1	Ì		İ	
		buldozeriais pridėti prie N1-94						
5	N1-74	I grupės grunto kasimas 0,25m3	1000 m3	38.1	5357.16	•	76285.35	81642.51
	(S10=1.15)	kaušo talpos ekskavatoriais,						
		pakraunant į autosavivarčius		<u> </u>	<u></u>			
6	T1-53	1 grupės grunto	100m3	381			124343.16	124343.16
		transportavimas 6t	l	İ		1		
İ		a/savivarčiais 1 km atstumu			}	1		·
	<u> </u>	pakraunant 0,4m3 kaušo talpos		ļ	<u> </u>			
7	N1-82	Darbai sąvartoje, atvežant	1000 m3	38.1	839.72	39.03	5303.52	6182.27
	(S10=1.15)	autosavivarčiais I grupės gruntą				<u> </u>		
8	N27-19	Pagrindų išlyginamųjų ir	100 m3	0.36	45.97	1197.07	92.12	1335.16
	(S10=1.15)	paruošiamųjų sluoksnių iš			1	1	1	4
ļ	ļ	smėlio įrengimas						
9	N27-86	15 cm storio dvisł. dangos	100 m2	1.8	60.59	4725.50	330.01	5116.10
	(S10=1.15)	viršutinio sluoks. iš granit.	İ			ì	! !	
		skaldos 40-70 mm didesnio kaip	1					
		98,1 MPa atsparumo įrengimas					202.44	1225 15
10	N27-89	15 cm storio dvisl. dangos	100 m ²	1.8	53.5	4 4078.45	203.46	4335.45
	(S10=1.15)	apatinio sluoks, iš granit.			1		1	
		skaldos 40-70 mm didesnio kaip						
		98,1 MPa atsparumo įrengimas		.	 	0150.55		0100 70
11	N27-92	Keičiant sluoksnio storį,	100 m ²	1.8	1	2170.57	ή Ι	2170.57
	(K8=8)	kiekvienam sekančiam			1	Í		
		centimetrui prie normatyvų	.	1	1			
		N27-83, N27-86, N27-89 pridet	1					
	1	arba atimti	1			i	1	



1	2	3	4 1	5	6	7	8 [9
12	N27-190	4 cm storio dangos iš karštų	100 m2	1.8	66.19	2829.19	152.24	3047.62
	Ę	poringų vidutinio grūdėtumo						
		asfalto-betono mišinių					Ì	
	, ,	įrengimas mechanizuotai					į	
13		Keičiant dangos storį,	100 m2	1.8	3.39	1408.56		1411.95
1.7		kickvieniems 0,5 cm prie	100 1112			1 (00.00		. , , , , , ,
	•	normatyvo N27-190 pridėti arba		Ì	1		İ	
		atimti		İ	i			
14		6 cm storio juodos skaldos	100 m ²	1.8	79.13	938.89	131.52	1149.54
14		pagrindų įrengimas	100 mz	1.6	79.13	230.02	131.32	1142.54
	' '	pagundi itengutas	İ			ĺ		
16	S10=1.15)	77.183	100 .0			206.07		286.07
15	N27-163	Keičiant sluoksnio storį,	100 m2	1.8	ľ	286.07		280.07
	(K8=2)	kiekvienam sekančiam		ļ		ľ	į	
		centimetrui prie normatyvų					Į.	
ļ!		N27-161, N27-162 pridėti arba						
16	N27-180	4 cm storio dangos iš karštų	100 m2	3.9	143.42	6412.72	329.86	6886.00
	(S9=1.17	tankių B tipo markės I asfalto-					ŀ	
	S10=1.15)	betono-skaldos mišinių						
		įrengimas mechanizuotai						
17	N27-194	Keičiant dangos storį,	100 m2	3.9	5.52	2387.58		2393.10
	(K8=3	kiekvieniems 0,5 cm prie					}	
	S9=1.17	normatyvo N27-180 pridėti arba						
	S10=1.15)	atimti						
18	N27-19	Pagrindų išlyginamųjų ir	100 m3	1.84	234.96	6118.37	470.82	6824.15
	(S10=1.15)	paruošiamųjų sluoksnių iš						
1		smėlio įrengimas			ŀ			
19	N27-43	Viensluoksnių 12 cm storio	100 m2	9.2	302.47	4153.14	709.47	5165.08
i	(S10=1.15)	pagrindų ir dangų iš smelio-						
	 `	žvyro mišinių įrengimas						
20	N27-46	Keičiant sluoksnio stori,	100 m2	9.2		2061.65		2061.65
1	(K8=6)	kiekvienam sekančiam						
		centimetrui prie normatyvų						
		N27-43, N27-44, N27-45 pridėti	[;				
		arba atimti	<u> </u>		\$			
21	C1-891	Karjerinis žvyras	m3	-205	 	-6605.10		-6605.10
22	C1-890	Žvirgždas frakcinis	m3	205		10500.10		10500.10
23	N1-247	Iškasų dugno bei šlaitų ir	1000 m2	1.2			59.22	59.22
1		pylimų viršaus bei šlaitų			1 1			
	1	planiravimas 66kW (90AJ)			i i			
		autogreideriais II grupės grunte						
24	N1-390	Šlaitų sutvirtinimas pasėjant	100 m2	12	1787.76	735.84		2523.60
- ·		daugiametes žoles ir						
1	1	paskleidžiant augalų sluoksnį			1			
-		rankiniu būdu					İ	
25	N1-74	I grupės grunto kasimas 0,25m3	1000 m3	38.1	5357.16		76285.35	81642.51
ريع	(S10=1.15)		12000 1115	```			wergrayer	S. J. D. FELL, I.
	(510-1.13)	pakraunant į autosavivarčius			<u> </u>			-
$\frac{1}{26}$	T1-53	1 grupės grunto	100m3	381	<u> </u>		124343.16	124343.16
"	1 11-33	transportavimas 6t	1001113]			213 43.10	121313.10
		a/savivarčiais 1 km atstumu		1				
		pakraunant 0,4m3 kaušo talpos	3					
L		They ocure of any years (a) 502		I	<u> </u>		i	

UA	B	"Eko	pro	ek	tas'

1	2	3	4	5	6	7	8	9
27	N1-82 (\$10=1.15)	Darbai sąvartoje, atvežant autosavivarčiais I grupės gruntą	1000 m3	38.1	839.72	39.03	5303.52	6182.27
28	N1-94	I grupės grunto kasimas ir perstūmimas iki 10m atstumu 55 kW (75AJ) galingumo buklozeriais	1000 m3	38.1			17903.19	17903.19
29	N1-95 (K8=3)	Kiekvieniems sekantiems 10m, perstumiant I grupės gruntą 55kW (75AJ) galingumo buldozeriais pridėti prie NI-94	1000 m3	38.1			49480.47	49480.47
30	N1-152	Pirminis paviršiaus planiravimas 55kW (75AJ) galingumo buldozeriais	1000 m2	127			2161.54	2161.54
	Iš viso #1				15453.71	43476.66	552183.37	611 114 Lt
		Pagalbinių medžiagų vertė				5.0%		2 174 1.0
		Papildomų mechanizmų vertė					5.0%	27 609 1.1
		Linijinio personato uždarbis			17.3%			2 673 L1
	Iš viso #2				18127.20	45650.49	579792.54	643 570 L1
		Indeksas			1.00	1.00	1.00	
	Po indeksaci	jos iš viso			18127.20	45650.49	579792.54	643 570 Lt
		Pridėtinės išlaidos			70.0%			10 818 Lt
		Soc. draudimas			30.0%			5 438 L1
		Kitos išlaidos			3.0%	3.0%	3.0%	19 307 L1
		Pelnas			10.0%	10.0%	10.0%	67 913 Lt
	Iš viso #3							747 046 LA
		PVM			18%	16%	18%	134 468 Lt
	Iš viso #4							881 515 Lt

Sudarè:	
S.Posaškov	

Sudaryta 1998.07.01 kainų lygiu.

Kompleksas: Objektas: E-0001 Orientacinė statybos kaina Birzai (Sewerage-Main SK5)

Žiniaraštis:

Outer Sewerge

18 viso už 5 296 814 1.1

Eil.	Darbo	Darby ir išlaidy	Mato			Ticsioginės	išlaidos (Litai	s)
Nr.	kodas	aprašymai	vnt	Kiekis	Darbas	Medžiagos	Mecha- nizmal	Iš viso
1	2	3	4	5	6	7	8	9
		S9-Specifiniai darbai						10365.58
		S10-Sezoniniai darbai						26671.94
1	N1-69	IV grupės grunto kasimas	1000 m3	8.02	1601.43	24.65	24102.50	25728.58
1 1	(S10=1.15)	0,5m3 kaušo talpos						:
		ekskavatoriais, pakraunant j			 			
2	N1-69	IV grupės grunto kasimas	1000 m3	0.39	85.66	1.20	1289.27	1376.13
	, ,	0,5m3 kaušo talpos						
	K2=1.1	ekskavatoriais, pakraunant į						
ļ	S10=1.15)	autosavivarčius					6504.08	2027.10
3	N1-69	IV grupės grunto kasimas	1000 m3	1.905	437.45	5.85	6583.87	7027.17
1		0,5m3 kaušo talpos]		
	K2=1.15	ekskavatoriais, pakraunant į						
	S10=1.15)	autosavivarčius				1 24	1207.15	1071.05
4	N1-69	IV grupės grunto kasimas	1000 m3	0.34	85.54	1.04	1287.47	1374.05
	(K1=1.26)	0,5m3 kaušo talpos			•	1		
	K2=1.26	ekskavatoriais, pakraunant į					İ	
<u> </u>	S10=1.15)	autosavivarčius	1000	2.05	456.00	24.50		101.22
5	N1-87	Medinių, apkaustytų metalu,	1000 m3	0.685	156.82	34.50	İ	191.32
	(K1=1.15)	skydų po 0,8m3 kaušo taipos						
	K2=1.15	ekskav, įrengimas, perkelimas ir						
<u></u>	S10=1.15)	priežiūra, kasant šlapią gruntą	1000 0	0.005	01.00	4.20		25.60
6	N1-87	Medinių, apkaustytų metalu,	1000 m3	0.085	21.32	4.28		25.00
	(K1=1.26	skydų po 0,8m3 kaušo taipos						
	K2=1.26	ekskav. įrengimas, perkėlimas ir						
<u> </u>	S10=1.15)	prieżiūra, kasant šlapią gruntą	1000 2	0.695	152.36	35.80	76.57	264.73
7	N1-89	Pakloto po autotransporto	1000 m3	0.685	152.30	33.60	10.57	204.73
	(K1=1.15	priemonėmis, kurių keliamoji						
	K2=1.15	galia iki 12t, įrengimas, kasant ekskavatoriais šlapią gruntą						
8	S10=1.15) N1-89	Pakioto po autotransporto	1000 m3	0.085	20.71	4.44	10.41	35.56
°		priemonėmis, kurių keliamoji	1000 1115	0.003	20.71	1.77	10.41	33.30
	(K1=1.26 K2=1.26	galia iki 12t, įrengimas, kasant						
1	82 = 1.23 810 = 1.15	ekskavatoriais šlapią gruntą				l	1	
9	T1-52	4 grupės grunto	100m3	213.1			89054.49	89054.49
"	11-32	transportavimas 6t	10000	"."				
		a/savivarčiais 1 km atstumu						
		pakraunant 0,5m3 kaušo talpos		l				
10	T1-61	Transportuojant 3-4 grupės	100m3	213.1	 		446968.73	446968.73
"	(K8=34)	grunta gerais keliais 6t						
1		a/savivarčiais už kiekvieną						
-		papildomą kilometrą pridėti]				

	2	3		5	6	7	8	9
11	NI-19	IV grupės grunto kasimas	1000 m3	20.99	3248.24		51719.36	54967.60
		0,5m3 kaušo talpos		1				
	,	ekskavatoriais, suverčiant į				ł	j	
12	N1-19	IV grupės grunto kasimas	1000 m3	0.445	75.75		1206.13	1281.88
	(K1=1.1)	0,5m3 kaušo talpos						
		ckskavatoriais, suverčiant į						
		sankasa			ļ.			
13	N1-106	IV grupės grunto kasimas ir	1000 m3	21.435			22635.36	22635.36
ļ		perstūmimas iki 10m atstumu						
		79kW (108AJ) galingumo				. 1	ŀ	
		buldozeriais						
14	N1-107	Kickvieniems sekantiems 10m,	1000 m3	21.435			10494.58	10494.58
		perstumiant IV grupės gruntą						
		79kW (108AJ) galingumo						
		buldozeriais pridėti prie N1-106						
15	N1-302	IV gr. grunto kasimas rank.	100 m3	6.1	29223.64			29223.64
	(K8≔1.5	būdu iki 2m pločio ir iki 2m					1	
	S10=1.15)	gylio nesutvirtintose transéjose				1		
		ir iki 1,5m gylio duobių kasimas				1		
16	N1-310	Tranšėjų, iškasų ir duobių	100 m3	6.1	6849.20			6849.20
	(S10=1.15)	užpylimas IV grupės gruntu						
		rankiniu būdu	1		.			<u> </u>
17	N1-136	Tranšėjų ir duobių užpylimas iš	1000 m3	31.2			11659.44	11659.44
		sankasos 55kW (75AJ)			i	İ	Ì	
		galingumo buldozeriais,						
		perstumiant III grupės gruntą			ŀ			
	ļ	iki 5m atstumu						
18	N1-137	Kickvieniems sekantiems 5m,	1000 m3	31.2			15238.08	15238.08
	(K8=3)	perstumiant III grupės gruntą				į	1	
	}	55kW (75AJ) galingumo	1					
	<u> </u>	buldozeriais pridėti prie N1-136		<u> </u>	:			<u> </u>
19	N1-382	III - IV grupės grunto plūkimas	100 m3	315.1	60077.56		46997.17	107074.73
	(S9=1.17	elektroplüktuvais				ŀ	ļ	
	S10=1.15)			<u> </u>				
20	c1-m240	Vandens siurbliai su vidaus	maš/val	4896			128275.20	128275.20
		degimo varikliu	<u> </u>					
21	N27-19	Pagrindų išlyginamųjų ir	100 m3	14.5	1851.59	48215.40	3710.26	53777.25
ļ	(S10=1.15)		Į.		i !			
	<u> </u>	smėlio įrengimas	<u> </u>	<u> </u>				
22	N23-1	Smėlio pagrindo po vamzdynais	m3	480	8427.94	15180.48		23608.42
<u> </u>	(S10=1.15)			<u> </u>				
23	N23-5	Betoninio pagrindo po	m3	0.75	16.76	141.26	13.67	171.69
	(S10=1.15)	vamzdynais įrengimas šlapiame]] [<u> </u>	
L	<u> </u>	grunte	<u> </u>	1				······································
24	N23-7	Gelzbetoninio pagrindo po	m3	2.55	65.77	476.82	48.54	591.13
l	(S10=1.15)							
i		grunte	<u> </u>	<u> </u>	<u> i</u>			 -
L	N23-2	Skaldos pagrindo po	m3	67	1176.40	4586.82		5763.2
25							,	
25	(S10=1.15)							

1	2	3	4	5	6	7	8	9
26	P13-400	Pipe & Fitings	L.S.	1	55191.77	2287452.96	56269.49	2398914.22
·		Iš viso už skyrių. Pipe				2287452.96	56269.49	2398914.22
$\overline{27}$	N1-302	IV gr. grunto kasimas rank.	100 m3	0.4	1277.48			1277.48
	(S10=1.15)	būda iki 2m pločio ir iki 2m						
		gylio nesutvirtintose tranšėjose						
		ir iki 1,5m gylio duobių kasimas		ì		i i		
28	N6-19	Betoniniai juostiniai paniatai	m3	10.4	908.76	148.77	189.70	1247.23
	(S9=1.026	atraminės rūsio sienos iki						
L	S10=1.15)	300mm pločio, įrengiant						
29	C1-320	Betonas	m3	10.56		1823,40		1823.40
30	N1-310	Tranšėjų, iškasų ir duobių	100 m3	0.3	336.85			336.85
	(\$10=1.15)	užpylimas IV grupės gruntu						
		rankiniu būdu		·				
31		III - IV grupės grunto plūkimas	100 m3	0.3	57,20		44.75	101.95
	(89=1.17	elektroplūktuvais						
	S10=1.15)							
32		Apvalių surenkamų	m3	16.25	2155.75	3216.37	1316.25	6688.37
	(S10=1.15)	gelžbetoninių d 4m						
		kanalizacijos šulinių įrengimas	 			<u> </u>		
33		Apvalių surenkamų	m3	1.71	226.85	338.46	138.51	703.82
ł	(S10=1.15)	gel/betoninių d 1m						
		kanalizacijos šulinių įrengimas	<u> </u>			_		
3:		Apvalūs surenkami gelzbetonio	m3	21.45	2195.11	1151.34	2171.81	5518.20
	(S10=1.15)	vandentiekio šuliniai sausuose	<u> </u>					
\ 		gruntuose	ļ <u>.</u>	25.61	061706	1010 00	260.55	01(0.01
3:	j i	Apvalūs surenkami gelžbetonio		35.64	3647.26	1913.00	3608.55	9168.81
	(S10=1.15)	•		1		l		
<u> </u>	. N/22 220	gruntuose		2.55	260.06	126 97	258.19	656.02
30	1	Apvalūs surenkami gelžbetonio vandentiekio šuliniai sausuose	m3	2.55	260.96	136.87	258.19	0.50.02
1	(S10=1.15)					1		
3	7 G-9107	gruntuose Plokštės-dugnai/šulin#Kcd-10	vnt	13		1205.08		1205.08
3		Plokštės-perdeng šulin#Kep1-	vnt	13	<u> </u>	669.49		669.49
'	0.5063	10-2	YIIL	13	<u> </u>	002.42		002.4.
3	G-9056	Žiedai-šuliniam#Ke-10-9	vnt	26	 	3213.54		3213.5
4		Plokštės-dugnai/sulin#Kcd-15	vnt	13		2544.05		2544.0:
4		Žiedai-šuliniam#Kc-15-9	vnt	26		5355,90		5355.9
4		Plokštės-perdeng šulin#Kep1-	vnt	13	 	1807.61		1807.6
'	0 3000	15-2	'**	1 ~	1	1007.01	İ	
4	3 G-9109	Plokštės-dugnai/šulin#Kcd-20	vnt	12		3646.13		3646.1
4	 	Žiedai-šuliniam#Kc-20-9	vnt	24		7292.26		7292.2
	5 G-9094	Plokštės-perdeng.šulin#Kcp1-	vnt	12	1	3151.74		3151.7
		20.2				1	ļ	
4	6 G-9102	Plokštės-kelio/suliniam#KcO-1	vnt	21	<u> </u>	216.30		216.3
4	7 G-9053	Žiedai-šuliniam#Kc-7-3	vnt	14		360.49		360.4
4	8 G-9055	Žicdai-šuliniam#Kc-10-6	vnt	3	1	247.20		247.2
4	9 G-9102	Plokštės-kelio/šuliniam#KcO-1	vnt	52		535.59		535.5
_	0 G-9053	Žiedai-šuliniam#Kc-7-3	vnt	27		695.24		695.2
·	1 G-9055	Žiedai-šuliniam#Kc-10-6	vnt	1		82.40		82.4
_ 5	2 C113-823	Liukas šulinio sunkus	vnt	38	J	8802.70		\$802.7

i	2	3	4	5	6	7	8	9
53	N27-222	Kelio ženklų, vieno skydelio ant	vat	39	785.75	841.51	156.39	1783.65
- 1	(S10=1.15)	vieno metalinio stovo,						
- 1	,	betonuojant pamatą, įrengimas						
. 1		rankiniu būdu						
54	C1-979	Juodi suvirinti vand	1	0.346		1052.32		1052.32
		dujot vamzdžiai diam, iki						
55	N15-188	Metalinių iki 50mm skersmens	100 m2	0.39	180.46	147.13		327.59
	·	vamzdžių aliejinis dažymas du			Ì			
		kartus						
56	N1-69	IV grupės grunto kasimas	1000 m3	0.12	26.36	0.37	396.71	423.44
	(K1=1.1	0,5m3 kaušo talpos		l	ļ			
	K2=1.1	ckskavatoriais, pakraunant į			i		Ţ	
	S10≈1.15)	autosavivarčius						
57	T1-52	4 grupės grunto	100m3	1.2			501.48	501.48
		transportavimas 6t			1			İ
		a/savivarčiais 1 km atstumu						
		pakraunant 0,5m3 kaušo talpos						
58	N1-84	Darbai sąvartoje, atvežant	1000 m3	0.12	4.88	0.49	27.65	33.02
ļ	(\$10=1.15)	autosavivarčiais IV - V grupės		1		Į		
	,	gruntą						
59	N11-40	20mm storio cementinis	100 m2	0.1	27.23	34.20		61.43
		užtepas, atliekamas rankiniu		<u> </u>				
60	N11-17	Pirmas klijuotinės	100m2	0.1	35.82	264.07		299.89
	(S9=1.136)	hidroizoliacijos sluoksnis,				l	ļ	i
		klijuojant rulonines medžiagas]]		ĺ	ì	
L		bitumine mastika rankiniu būdu						
61	N11-19	Sekantis klijuotinės	100m2	0.1	15.68	150.56		166.24
ŀ	(S9=1.136)	hidroizoliacijos sluoksnis,		i 1			1	
]	klijuojant rulonines medžiagas						
L		bitumine mastika rankiniu būdu		ļ				
62	N11-40	20mm storio cementinis	100 m2	0.1	27.23	34.20	ļ	61.43
	<u></u>	užtepas, atliekamas rankiniu	<u> </u>	ļ				
63	N23-117	Stačiakampių monolitinių	m3	7.95	405.12	3646.96	160.99	4213.07
	(S9=1.017	betoninių didesnio kaip 3m2			j .			
	S10=1.15)	ploto kanalizacijos šulinių	}					İ
		įrengimas šlapiuose gruntuose	ļ					
64	C1-326	Betonas hidrotechninis	m3	6.1		1571.79		1571.79
65	G-4002	Plokštės-perdang/kamer#pK24		1 1	ļ	232.77		232.77
66	G-4007	Plokštes-perdang/kamer#pK-24	vnt	1		208.47		208.47
	<u> </u>	1	ļ	 				
67	G-9053	Žiedai-šuliniam#Ke-7-3	vnt	1	 	25.75		25.75
68	C113-823	Liukas šulinio sunkus	vnt	1 05	<u> </u>	231.65		231.65
69	C1-10	Armatūra	 	0.5	20.00	805.50		805.50
70	N6-143	Gelzbetoninių juostų	m3	0.45	20.80	8.78	8.21	37.79
1	(S9=1.043	1.	'[
	S10=1.15)		+	0.5	 	06.24		07.34
71	C1-320	Betonas	m3	0.5	53.36	86.34 223.37	61.92	86.34
72	N22-263	Plieninių suvirintų fasoninių dalių d 300-800mm pastatymas	l t	1 0.053	33.36	243.31	01.92	338.65
-	(S9=1.119	1 '						
1	S10=1.15)		1	Ī	1	· ·	: 1	

11	2	3	4	5	6	7	8	9
73	N22-284	Vandentickio plieninių	vnt	2	16.41	21.75		38.16
[(K4=0.5	sklendžių arba atbulinių						
	\$9≔1.06	vožtuvų d 160mm pastatymas				į	1	
	S10=1.15)		i					
74	N6·152	Paviršių torkretavimas 20mm	m2	15	119.39	87.65	10.20	217.24
	(S9=1.145	storio sluoksniu iki 4m aukščio				1		
{	S10=1.15)	tūriniuose įrenginiuose						
75	N6-153	Keičiant torkretavimo storį,	m2	15	13.43	19.93	2.04	35,40
	(S9=1.145	kiekvieniems 5mm pagal įkainį		1		l		1
	S10=1.15)	N6 - 152 pridėti arba atimti						
76	N11-21	Viensluoksnė 2mm storio	100m2	0.05	12.34	62.99		75.33
	(S9=1.136)	teptinė bituminės mastikos			Į			
i l		hidroizoliacija rankiniu būdu		İ				
		(mažų apimčių, verdant bitumą						
		objekte)						
77	N11-23	Sekantis 1mm storio bituminės	100m2	0.05	3.36	29.91		33.27
	(S9=1.136)	mastikos hidroizoliacijos		-				
		sluoksnis, tepamas rankiniu						
78	N11-40	20mm storio cementinis	100 m2	0.1	27.23	34.20		61.43
		užtepas, atliekamas rankiniu						
79	N11-41	Kickvieniems 5mm cementinio	100 m2	0.1	5.61	17.10		22.71
	(K8=2)	užtepo, atliekamo rankiniu					ŀ	
'		būdu, storio pokyčio pridėti ar				ĺ		
		atimti pagal N11-40.						
80	N11-59	20mm storio cementine danga,	100 m2	0.1	27.19	38.10		65.29
		atliekant darbus rankiniu būdu.						21.76
81	N1-136	Tranšėjų ir duobių užpylimas iš	1000 m3	0.085			31.76	31.76
		sankasos 55kW (75AJ)						
	ļ	galingumo buldozeriais,			1			
		perstumiant III grupės gruntą					ļ	
) II 202	iki 5m atstumu	100 0	0.05	162.06		126.78	288.84
82	N1-382	III - IV grupės grunto plūkimas	100 m3	0.85	162.06		120.78	200.04
	(S9=1.17	elektroplûktuvais				- 1		
000	S10=1.15)	IV as amunta basisas sast	100 m3	0.55	2195.62			2195.62
83	N1-302	IV gr. grunto kasimas rank.	Ltooms	0.33	2193.02		1	2175.02
	(K8=1.25	būdu iki 2m pločio ir iki 2m gylio nesutvirtintose transčijose		!				
	S10=1.15)	ir iki 1,5m gylio duobių kasimas						
84	N7-3	Pamatų blokų ir plokščių	vnt	6	41.02		100.80	141.82
04	147-3	juostiniams pamatams	, ,,,,	"	71.02	j	100.00	
		montavimas, kai konstrukcijos			1			
-		masė iki 3,5t			Į l			
85	N7-196	Vandent, ir kanalizac, tūrinių	m3	6.8	689.28	928.32	397.66	2015.26
"	137-170	irenginių iki 6m2 ploto sieninių		1	555.20	220.02		
		plokščių montavimas, užtaisant	1		l i	ĺ		
İ		vertikalias siūles betonu						
86	N7-9	Rūsio sienų blokų, kurių masė	vnt	18	56.76	56.66	146.88	260.30
"	''''	iki 0,5t, montavimas	}]				
87	B-254	Blokai rūsio sienoms FBC9.3.6	vnt	18		814.65		814.65
		- 751						
88	G-8025	Plokštės-atram sienoms#fC-18	vnt	6	T i	3000.33		3000.33

UAB "Ekoprojektas"

1	2	3	4	5	6	7	8	9
89	G-8022	Plokštės-atram.sienoms#CT-30	vnt	6		3494.72		3494.72
90	N6-47	Monolitinės gelžbetoninės	m3	0.9	164.01	22.42	38.88	225.31
-	(S9=1.043	kolonos, kurių aukštis iki 3m ir			ļ	i		
l	S10=1.15)	perimetras iki 1.5m		-	l l			
91	N6-45	Tarpij tarp surenkamij blokij	m3	1.1	146.25	11.80	17.95	176.00
	(89=1.026)	užbetonavimas, įrengiant						
	Š10=1.15)	klojinius iš skydų, paduodant			j			
ļ	•	medžiagas kranu						
92	C1-320	Betonas	m3	2.1		362.61		362.61
93	C1-10	Armatūra	t	0.045		72.50		72.50
94	N8-1	Vertikali dviejų sluoksnių	100 m2	0.45	32.40	195.65	64.96	293.01
	(S9≈1.136	teptinė bitumo mastikos				ļ		Ì
	S10=1.15)	hidroizoliacija						
95	N1-310	Tranšėjų, iškasų ir duobių	100 m3	0.45	505.27			505.27
	(S10=1.15)	užpylimas IV grupės gruntu						
	(rankiniu būdu					. 1	
96	N11-11	Betono pasluoksnis ant grunto,	m3	6.6	96.94	1162.41	82.86	1342.21
		paduodant medžiagas kranu.		Į		-		
97	N1-393	Šlaitų tvirtinimas	100 m2	0.45	348.37	328.28	359.03	1035.68
	(S10=1.15)	surenkamomis betoninėmis	,			1		
	(****	16cm storio ir iki 1m2 ploto	ļ					
98	N1-394	Kiekvienam surenkamų	100 m2	-0.45	-85.75	-6.79	-201.75	-294.29
	(K8=9	betoninių plokščių kuriomis		<u> </u>		1		
	810=1.15)	tvirtinami šlaitai storio pokyčio	Ì					
	""	cm pridéti ar atimti pagal N1-]	ļ	* *
99	G-8535	Plokštės	vnt	12		3028.20		3028.20
100	S-30	Prataidos	m	45	3937.41	19597.50	795.96	24330.87
	lš viso #1				189929.42	2447666.55	928655.71	3 566 252 1.0
		Pagalbinių medžiagų vertė				5.0%		122 383 Lt
		Papildomų mechanizmų vertė					5.0%	46 433 L1
		Linijinio personalo uždarbis			17.3%			32 858 Lt
	Iš viso #2				222787.20	2570049.88	975088.50	3 767 926 Lt
		Indeksas			1.00		1.00	
	Po indeksaci	ijos iš viso			222787.20	2570049.88	975088.50	3 767 926 1.0
		Pridėtinės išlaidos			70.0%			132 951 Li
		Soc. draudimas			30.0%			66 836 Lt
		Kitos išlaidos			3.0%	3.0%	3.0%	113 038 L
		Pelnas			10.0%	10.0%	10.0%	408 075 Lt
	Iš viso #3							4 488 825 L
		PVM			18%	, 		807 989 L
	Iš viso #4					1		5 296 814 Li

Sudarė:	
S.Posaškov	***

Sudaryta 1998.07.01 kainų lygiu.

Kompleksas:

NUTEKAMOJO VANDENS VALYMO ĮRENGINIAI BIRŽUOSE

Objektas:

05 Magistrale SK-1

Žiniaraštis:

2 Išorės fekalinė kanalizacija

18 viso už 3 360 252 L1

Eil.	Darbo	Darbų ir išlaidų	Mato			Tieslogines	išlaidos (Lit:	ais)
Nr.	kodas	aprašymai	vnt	Kiekis		Medžiagos	Mecha- nizmal	Iš viso
1	2	3 .	4	5	6	7	8	9
1	N22-63	Vanizdynai iš d300mm ketinių slėginių vamzdžių, užtaisant įmovas guminiais sandarinimo žiedais	m	7155	41930.80	15153.95	47637.99	104722.74
2	N22-63 (K1=1.15 K2=1.15)	Vamzdynai iš d300mm ketinių slėginių vamzdžių, užtaisant įmovas guminiais sandarinimo žiedais	m	71	478.50	150.38	543.63	1172.51
3	U-10009U	Vamzdžiai d.300 f."Pont-a- mousson"	m	7226		2039321.72		2039321.72
4	N22-45	Vamzdynai iš d150mm ketinių slėginių vamzdžių, užtaisant įmovas smaluota virve ir asbestcementu	m	55	262.41	5216.64	291.12	5770.17
5	N22-71	Vamzdynai iš d300mm plieninių vamzdžių, su hidrauliniu išbandymu	m	7	38.32	14.69	69.47	122.48
6	N22-74	Vamzdynai iš d500mm plieninių vamzdžių, su hidrautiniu išbandymu	m	150	1497.31	711.86	2945.10	5154.27
7	N22-378	Plieninių vamzdžių d 300mm įtraukimas į dėklus	m	130	1251.38	1194.30		2445.68
8	N22-378 (K1=1.15 K2=1.15)	Plieninių vamzdžių d 300mm įtraukimas į dėklus	m	16	177.12	146.98		324.10
9	N22-385	Dėklų galų didesnio kaip d 400mm užtaisymas virve ir bitumu	vnt	6	403.82	1671.50		2075.32
10	C113-202	bt 2kp-bst 4kp ir bst 2ps-bst 4ps markes plieno tiesiasiūliai elektra suvirinti vamzdžiai su briaunele, išor.diam =325mm, sien stor. 6 mm	m	7		1087.48		1087.48
11	C113-228	Plieniniai elektra suvirinti spiraline siūle b ir d grupės vamzdžiai su briaunele (gost 10704-76), išor.diam.=530mm sienel stor. 8mm	m	150		50852.13		50852.13
12	N22-398	Labai sustiprinta bituminė- polimerinė plieninių d=500mm vamzdžių izoliacija	m	150	824.79	11729.06		12553.85

i	2	······	4	5 [6	7	8	9 1
13		Labai sustiprinta bituminė-	m	7	23.30	335.54		358.84
' '		polimeriné plieninių	· · · · · ·					
		d=300mm vanzdžių izoliacija]				
14		Normali bituminė-guminė	1000 t.m	0.15	169.04	916.71		1085,75
'*		plieninių vamzdynų d 500mm	1000 1.11	0.1.	102.01	710.71		1003,73
		sandūrų ir fasoninių dalių		1				
				İ				
1.5		izoliacija Normali bituminė-guminė	1000 t.m	0.07	50.15	191.79		241.94
15			1000 1.114	0.07	30.13	191.79	}	241.94
	1	plieninių vanzdynų d 300mm				ļ		
		sandūrų ir fasoninių dalių				İ		
		izoliacija		15	133.71	62.51	75.83	272.05
16	N23-22	Gelzbetoninių beslėgių	m	13	133.71	02.31	75.83	272.03
<u></u>		įmovinių d 400mm vamzdžių				792.41		702 41
17		Vamzdžiai-	vnt	3		192.41	<u> </u>	792.41
		beslég movin #PT4.50-2		15	70.54	104.00		125.50
18	N23-81	Betoninių ir gelžbetoninių d	m	15	70.54	104.99		175.53
		400mm vamzdžių padengimas				Ì		
		bitumine mastika	1000		2511.66	5650.05		0160.50
19	N22-386	Požeminių komunikacijų	1000 t.m	7.241	3511.65	5657.85		9169.50
		pakabinimas susikirtime su d				Ì		
		iki 500mm vamzdynais			l		1	
<u> </u>		gyvenvietėse ir pram aikštelėse	1		105.01	167.00		262.02
20	N22-268	Vandentickio ketinių	vnt	13	105.81	157.02		262.83
1		sklendžių arba atbulinių						İ
		vožtuvų d 50mm pastatymas	<u> </u>		17.170			
22	N22-272	Vandentiekio ketinių	vnt	12	196.28	541.03		737.31
		sklendžių arba atbulinių						
		vožtuvų d 150mm pastatymas		ļ				
23	S-10010S	Sklende f."Pont-a-mousson"	vnt	13		6000.80		6000.80
		EURO 23 d.50		<u></u>				1
24	S-10014S	Sklende f. "Pont-a-mousson"	vnt	12		17370.60		17370.60
		EURO 23 d.150	<u> </u>					
25	C130-1793	Flanšai plien. plokšti iš plieno	vnt	26		808.60		808.60
		bet3cp2, bet3cp3 d50mm						
26	C130-1798	Flanšai plien. plokšti iš pl.	vnt	24		746.40		746.40
ļ		bet3cp2, bct3cp3 d150mm		Ì	ļ			
L	l	1,6MPa	<u> </u>					
27	N22-260	Ketinių fasoninių dalių d 250-	t	8.8	2260.16	27798.15	3920.40	33978.71
		450mm pastatymas	<u> </u>	<u> </u>				<u> </u>
28	N22-329	Flanšų privirinimas prie	vnt	14	187.86	88.40	452.62	728.88
	<u> </u>	plieninių d 300mm vamzdynų		<u> </u>				
29	N22-322	Flanšų privirinimas prie	vnt	13	37.05	1.14	103.35	141.54
		plieninių d 50mm vamzdynų		<u> </u>	ļ <u>.</u>			
30	C130-1776	Flanšai plieniniai d 50mm	vnt	13		493.25		493.25
31	C130-1784		vnt	14		10928.54		10928.54
32	C159-1160		vnt	13		1136.55		1136.55
		bct3cp3 pu-1MPa d-300mm		<u> </u>	1			
33	N22-263	Plieninių suvirintų fasoninių	t	0.13	154.03	829.63	229.98	1213.64
-		dalių d 300-800mm pastatyma	ıs	<u> </u>				



Lokalinė sąmata Nr. 2°

ŧ	2	3	4	5	6	7	8	9
34	N6-6	Betono pagrindas po pamatais	m3	12	304.43	2262.30		2566.73
		(mažoms apimtims),pervežant				j		į
	<u> </u>	betoną karučiais						
35	N6-28	Betoniniai stulpiniai	m3	13.5	999.79	495.44		1495.23
		pamatai, įrengiant klojinius iš						
		lentų (mažoms apimtims)	, _ 					
36		<u> </u>	<u>M3</u>	12.18		2103.12		2103,12
37	P60-600046	Betonas M 200	M3	13.7		2365.58		2365.58
38	N22-293	Viengubų vantūzų pastatymas	vnt	13	123,51	65.93		189.44
39	S-10013S	Vantuzas "Pont-a-moussuon"	vnt	13		77948.00	ĺ	77948.00
L		d.50		<u> </u>				
	lš viso #1				55191.76		56269.49	2 398 914 Lt
		Pagalbinių medžiagų vertė				2.0%	1	45 749 1.1
		Papildomų mechanizmų vertė					5.0%	2 813 Lt
		Linijinio personalo uždarbis			17.3%			9 548 Lt
	Iš viso #2				64739.93	2333202.03	59082.96	2 457 025 Lt
		Indeksas			1.00	1.00	1.00	
	Po indeksacij	jos iš viso			64739.93	2333202.03	59082.96	2 457 025 L1
		Pridėtinės išlaidos			70.0%			38 634 L1
		Soc. draudimas			30.0%			19 422 Lt
		Kitos išlaidos			3.0%	3.0%	3.0%	73 711 Lt
		Pelnas			10.0%	10.0%	10.0%	258 879 Lt
	Iš viso #3				l			2 847 671 Lt
		PVM			18%			512 581 1.4
	Iš viso #4							3 360 252 L1

Sudarė:	

Lokalinė sąmata Nr. 3

Sudaryta 1998.07.01 kainų lygiu.

Kompleksas:

E-0001 Orientacinė statybos kaina

Objektas:

Birzhai

Žiniaraštis:

Diuker

Iš viso už 260 643 L1

(

Bił.	Darbo	Darby ir išlaidy	Mato		Tiesloginės išlaidos (Litais)				
Nr.	kodas	aprašymai	ynt	Kiekis	Darbas	Medžiagos	Mecha- nizmai	Iš viso	
1	2	3	4	5	6	7	8	9	
1	SF-01	Diuker	kompl	1	9353,38	110943.00	55182.00	175478.38	
	lš vise #1				9353.38	110943.00	55182.00	175,478 Lt	
		Pagalbinių medžiagų vertė				5.0%		5 547 1.0	
		Papildomų mechanizmų vertė					5.0%	2 759 L	
		Linijinio personalo uždarbis			17.3%			1 618 Lt	
	Iš viso #2				10971.51	116490.15	57941.10	185 403 Li	
		Indeksas			1.00	1.00	1.00		
	Po indeksac	ijos iš viso			10971.51	116490.15	57941.10	185 403 L	
		Pridétinės išlaidos			70.0%			6 547 L	
		Soc. draudimas			30.0%			3 291 L	
		Kitos išlaidos			3.0%	3.0%	3.0%	5 562 L	
		Pelnas			10.0%	10.0%	10.0%	20 080 L	
	Iš viso #3					<u> </u>		220 884 L	
		PVM			18%			39 759 L	
	Iš viso #4					1		260 643 L	

Sudarė:	
S.Posaškov	

Lokalinė sąmata Nr. 4

Sudacyta 1998.07.01 kainų lygiu.

(29)

Kompleksas:

E-0001 Orientacinė statybos kalna

Objektas:

Birzbai

Žiniaraštis:

Temporary Road

Iš viso už 663 188 L1

Eil.	Darbo	Darbų ir išlaidų	Mato			Tiesloginės l	šlaidos (Lita	is)
Nr.	kodas	aprašyma i	vnt	Kickis	Darbas	Medžiagos	Mecha- pizmai	lš viso
1	2	3	4	5	6	7	8	9
		S9-Specifinial darbai						54.96
L		S10-Sezoniniai darbai						1303.16
1	C1-910	Smėlis statybinis	m3	3310		99697.20		99697.20
2	T1-50	2 grupės grunto	100m3	33.1			10275.56	10275.56
		transportavimas 6t						i
		a/savivarčiais 1 km atstumu						
		pakraunant 0,5m3 kaušo talpos						
3	T1-60	Transportuojant 1-2 grupės	100m3	33.1			61363,56	61363.56
	(K4=34)	gruntą gerais keliais 6t	İ					
		a/savivarčiais už kiekvieną				1		
ļ		papildomą kilometrą pridėti						
4	N1-83	Darbai sąvartoje, atvežant	1000 m3	3.31	88.94	6.78	571.97	667.69
	(S10=1.15)	autosavivarčiais II - III grupės						
		gruntą						
5	N1-371	Iki 30cm storio grunto	100 m3	33.1	ļ		2655.28	2655.28
		sluoksnio sutankinimas		l				
		nelaistant vandeniu, pereinant						
		vibraciniu volu vieną kartą						
6	N1-372	Kickvienam sekančiam	100 m3	33.1			3461.60	3461.60
	(K4=7)	perėjimui vibraciniu volu						
		sutankinant iki 30cm storio						
		grunto sluoksnį pridėti prie N1-			ļ			
7	N27-19	Pagrindų išlyginamųjų ir	100 m3	3.94	503.12	13101.29	1008.17	14612.58
	(S10=1.15)	paruošiamųjų sluoksnių iš		İ				
		smėlio įrengimas	ļ					
8	N27-43	Viensluoksnių 12 cm storio	100 m2	19.7	647.69	8893.13	1519.19	11060.01
	(S10=1.15)	pagrindų ir dangų iš smėlio-				ļ		
		žvyro mišinių įrengimas	ļ <u>.</u>		 			
9	N27-46	Keičiant sluoksnio storį,	100 m2	19.7		4414.63		4414.63
	(K4=6)	kiekvienam sekančiam	Į.					
1		centimetrui prie normatyvų	1					
		N27-43, N27-44, N27-45 pridėti						
	3100 75	arba atimti	 	ļ <u></u>	600.61	200 71	1142.05	2120.45
10	N22-75	Vamzdynai iš d600mm	m	51	699.61	288.71	1142.35	2130.67
	(S9=1.034	plieninių vamzdžių, su]	
 	S10=1.15)	hidrauliniu išbandymu	1		250 1	110.77	262.26	222.17
11	N22-79	Vamzdynai iš d1000mm	m	11	250.14	119.76	363.26	733.16
	(S9=1.034	plieninių vamzdžių, su						
L	S10=1.15	hidrauliniu išbandymu	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	

1	2	3	4 7	5	6	7	8	9
12	C113-236	Plieniniaj elektra suvirinti	m	51		20814.81	and the beautiful to the second of the secon	20814.81
	1	piraline siûle b ir d grupës		1				
: 1		vamzdžiai su briaunėlė (gost			1			
		10704-76), išor. diam.≕630mm,			ĺ			
		sienel, stor. 8 mm				Į		
13		Plieniniai elektra suvirinti	m	11		9015.14		9015.14
		spiraline siŭle b ir d grupės		ĺ			1	
		vamzdžiai su briaunele (gost	1				1	
	i	10704-76), išor.		ļ				
		diam. = 1020mm, sienel. stor.						
14		Vanizdynai iš d600mm	m	51	349.81		571.18	920.99
	(K1 = 0.5)	plieninių vanizdžių, su						
	K2=0.5	hidrauliniu išbandymu		1		ł		
	K3=0	•			1	i	ļ	
	S9=1.034							
	S10=1.15)							
15	N22-79	Vamzdynai iš d1000mm	m	11	125.07		181.63	306.70
]	(K1=0.5	plieninių vamzdžių, su			1			ĺ
1 1	K2=0.5	hidrauliniu išbandymu	1	1			ĺ	
	K3=0		1					
<u> </u>	S9=1.034						ļ	
İ	S10=1.15)	:						
16	N27-19	Pagrindų išlyginamųjų ir	100 m3	6.4	817.25	21281.28	1637.63	23736.16
	(S10=1.15)	paruošiamųjų sluoksnių iš		ļ	1			ļ
		smélio įrengimas						
17	N47-12	Gruntinių profiliuotų 7,5m	km	3.21			6146.19	6146.19
		pločio kelių įrengimas III gr.						
18	N47-18	Keičiant kelio plotį kiekvienam	km	-3.21		. '	-2596.26	-2596.26
	(K4=8)	metrui, pridėti arba atimti			•			1
<u> </u>		normatyvui N47-12						
19	N47-21	Profiliuoto, 7,5m pločio,	km	3.21	2100.27	158132.30	10111.83	170344.40
		150mm storio kelio dangos						
		įrengimas iš žvyro		0.01	1100.15	0.4005.45	1051.10	00406.43
20	N47-25	Keičiant kelio plotį kiekvienam	km	-3.21	-1120.15	-84335.17	-4951.10	-90406.42
	(K4=8)	0,5m (kai dangos storis						
		150mm), pridėti arba atimti	•					
1-21	NI 04	normatyvui N47-21	1000 m3	7.010			3298.23	3298.23
21	N1-94	I grupės grunto kasimas ir perstūmimas iki 10m atstumu	noo iib	7.019			3290.23	3290.23
	ļ	55 kW (75AJ) galingumo						
		buldozeriais	1	·			}	
22	N1-95	Kiekvieniems sekantiems 10m,	1000 m3	7 010			3038.53	3038.53
1 22	181-95	perstumiant I grupes grunta	1000 115	''		ĺ	3000.00	5056.55
		55kW (75AJ) galingumo		[
		buldozeriais pridėti prie N1-94		1	,			1
23	N1-74	1 grupės grunto kasimas 0,25m3	1000 m ³	7.019	986.93	<u> </u>	14053.73	15040.66
~'		kaušo talpos ekskavatoriais,	1000 110				1,055.75	130,10.00
		pakraunant į autosavivarčius						
L	<u> </u>	Partament Portosatifateids	<u> </u>	<u> </u>				

Lokalinė sąmata Nr. 4

1	2	3	4	5	6	7	8	9
24	T1-54	2 grupės grunto	100m3	70.19			26538.84	26538.84
Ì		transportavimas 6t						
		a/savivarčiais I km atstumu			1			
		pakraunant 0,4m3 kaušo talpos						
25	T1-60	Transportuojant 1-2 grupės	100m3	70.19			15308.72	15308.72
	(K4=4)	gruntą gerais keliais 6t						
		a/savivarčiais už kiekvieną						
		papildomą kilometrą pridėti	<u> </u>					
26	N1-83	Darbai sąvartoje, atvežant	1000 m3	7.019	188,60	14.38	1212.88	1415.86
	(S10=1.15)	autosavivarčiais II - III grupės						
		gruntą						
27	N27-25	Pagrindų iš žvyro profilio	100 m2	156	3907.74	31573.15	12550.20	48031.09
	(S10=1.15)	taisymas pridedant naujų						
L	<u> </u>	medžiagų	<u> </u>	<u> </u>	7.7.7.7.7	-0-01-0		
	Iš viso #1				9545.02	283017.39	169463.17	462 026 Lt
		Pagalbinių medžiagų vertė				5.0%		14 151 L1
		Papildomų mechanizmų vertė					5.0%	8 473 Lt
		Linijinio personalo uždarbis		<u></u>	17.3%		= ======	1 651 1.1
	Iš viso #2				11196.31	297168.26		486 301 Lt
		Indeksas			1.00	1.00	1.00	
	Po indeksaci	•			11196.31	297168.26	177936.33	486 301 Lt
		Pridėtinės išlaidos			70.0%			6 682 L1
		Soc. draudimas			30.0%			3 359 Lt
		Kitos išlaidos			3.0%	3.0%	3.0%	14 589 L1
		Pelnas			10.0%	10.0%	10.0%	51 093 Lt
	Iš viso #3				ļ		L	562 023 Lt
		PVM			18%	·	.	101 164 Lt
	Iš viso #4				1			663 188 L1

Sudarė:		
S.Posaškov		

	11.	Financial Analysis Calculation

Domestic		Ş	Z 5	8 8 8	62.0	884. CS	<u> </u>	5 6 6	S &	₹ &	<u> </u>	3 8	<u> </u>	3 8	\$, ₈
Total		250	1 629	1 705	1 781	1 836	1 898	1.656	2,015	2.072	2,138	2,204	2,269	2,334	2,400	2,40
E C		0.00	200	2			1 032	1031	000	1.029	1,032	1.031	1,030	1.029	1,026	3,
					90,1	1,13	117	120	1.24	1.27	1.31	33	1 39	1,43	1.47	101
inflavon rate			0.061	9,059	050'0	0.050	0.050	0,050	0.050	0.050	0500	0.050	0.050	0500	0.050	30 S
Inflation rate(98P)		8	1,000	1.059	1,112	155	1226	1.287	1,362	4.0	7.490	1.585	5	1.725	10.	5
Inflation rate(97P)			1.061	1,124	1,160	1 230	1,301	1.368	434	88	1.581	0961	1.743	7.630	1.922	2.0
(ant						N. S. S.		90.	20,	80.4	8	W.	230	2.50	9.30	2.5
Compession					1		6	3 6	7.07	8 8	3 8	3 8	9 6	120	200	
ndustrial						1650	1.65	7.87	78.5	2007	30.7	CAP 069 .	1 574 676	044 564 4	1 602 167	1 MAG 1
Comestic						250 450	487.088	07.085	0.00	7/2/2/2	0/7070	7/4/6/0"	FOT 004	100 OU	200,000	
industrial		*			No. of the last of	27 100 27 100 37 100 37 100 37 100 37 100 37 100	301 125	351 430 7 4 401 47	2007 00	2007 EB	30,30	7/3/01	0.6733	200.447	2002	23/23/80
Charles Hooding	The state of the s		1	The second second			1		1 03	13	1 03	1,03	1.13	1.03	3	-
							9	<u>.</u>		1				}	82,9502865	
A A A A A A A A A A A A A A A A A A A						928 202	219 852	233 449	247,965	263,033	280,242	297,830	318,488	336,146	357,204	369,34
SOME AND IN THE STREET	e d		106 900			124.61	135,220	141.846	148,805	156,046	7	172,396	180,857	189,558	159,072	203,34
	a.	55.640				78118	84633	91604	99066	106987	115888	125432	135630	146478	156131	166038
tost of chemical	•	<u>:</u>	7,000	71,000		92,896	608'89	210	26,832	103,641	109,153	114,502	120,120	125,972	132,218	135.0
Wages Social Securities						103 742	108,900	114,376	120,005	126,100	132,405	139,025	145,976	153,275	160,939	168.9
	Salaries(p)					68,350	68,350	69,350	\$6,350	68,350	68,350	68,350	68,350	88,350	88.88	88
	Salenes					79,802	83,792	67,082	92,381	97,000	101,850	100,942	112289	17,904	123,799	68
	Social Insurance					2,8	25,138	26,35	27,714	29,180	30,555	32,083	33,687	35,371	37,140	60
Perts, Maintenance						105 069	113,831	119,662	125,798	132,198	139,516	146,699	154,259	162,153	170,587	4.6
	STP		94,000			58 074	108,253	111,460	116,926	122,618	129,138	135,487	142,114	149,037	155,427	.26
	S.	2,000				6,995	7,578	6,202	8,870	0,580	10,378	E A	12,145	13,116	14,159	E .
Feci		!	3,000 3,000			5,838	7,384	7,746	8,126	2522	5,975	0.14.9.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	2/2/2	000,000 000,000	10,00 00,00	
	Analysis cost(P)	046.9K				27.475	30,820	4 50° C	47.082	20,000	55.085	50,616	64.463	69.619	15.158	40
Achtigada cos: Others cursos	Others parameter Service(n)	9000				6.776	6.99	7207	7,422	7,635	7,877	8,119	1929	9,600	8,	6
Others outsourcing Service		<u>:</u>				4,394	98.	2. 58.	10,644	11,498	12,453	13,478	575,47	15,739	Š	1,
W & S for Administration						346.812	366,253	384,569	403,794	423,983	445,183	467,442	450,814	515,356	541,122	88
	Salaries(P)					216,600	216,600	216,600	215,600	216,600	215,600	200,012	000'0L7	000,012	00001	7
	Selenes					768,317	28,733	028,082	330,61 50,483	126,141	25.400	10,800	300 000	11.000	0.00	? ?
	Social Insurance					25,450	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4,00	35,18	875.274	27.474	27.27	825.474	825.474	425 189	269.7
Taxes						84.694	84.694	466.48	88,929	88.920	88.929	83,375	83,375	93,375	28.044	3
	Nature Protection Tax	71,800				71,800	71,800	7,860	75,390	75,390	75,390	79,160	79,160	79,160	53,117	5
	Porperty tax					9,000	8,000	000'6	9,400	9,40	9,400	8,620	8,620	8,620	9,261	6
	Road Tax	4.00				4 8	4 29	4	5,139	5,139	5,139	5,396	5,396	5,396	5,665	90
Other G/A		40,000				49,551	52,028	7,630	57,361	80,229	53,241	66,403	69,723	13,209	6,869	90.7
						8	8	9.6	8	<u>.</u>	8	1,10	0	1.10	1.16	-
							1000	797.31	36.035	44	904.	17.759	1.0 79.0	1.8.811	, p	O.
runneen Chaga(p)						14 822	100	746	445	47.50	1901	0.50	20 163	20,739	22.388	77 388
						1 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.00	20.457	277	00 F #C	30,788	44.384	47.278	49.010	50.766	8.88
Properting for ded receivables					•	200 200	1 060 026	200-108	204 405	98,044	22.8 633	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.372.583	2 450 423	2 738 345	2 050 7
Section of the sectio				10000	100000000000000000000000000000000000000	107,007	906 12	618 000	2 1 5 3 5 V	S15 W.	\$2/800	\$50.386	059 685	415.075	45381	21.
interest Payment						321.450	321.450	321.450	321.450	321,450.	321,450	321,450	321,450	321,450	327,450	37.1,459
E.A. B.T					•	. 029.443	1,045,957	-936 436	-959 763	834 191	-849,346	-871,838	.717,300	-737,425	-366,832	8
Accumurate Profit(loss)					٦	1,029,443	2,075,400	-3,013,836	3,973,599	4,807,789	-5,657,136	-6,528,974	-1,245,274	-7,963,700	-8,350,521	-C.420,475
Corporate Profit Tex						0	0	0	0	0	٩	0	۰	0	٥	
Net Profit					র	1,029,443	1,045,957	936 436	-959 763	934,191	-849,346	571,838	717.300	737.425	-366,832	35 36 36
Cash Row						203 969	-220 483	.12,963	-134,289	6,717	23,873	46,365	108,174	86,048	56,357	199.9
Changing in Working Cap.						659,659	6.65	88.5		23,907	0500	21,650	247,622	414,	015,7 050 180	201,52
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industrial.	200	505	i	500		\$05	500	500	9	8	\$65	365	669	23.	
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Ųomestic					564,443	935.294	1 07 EBB		272 574 56 5 5 5 5	525.275	2/2 6/5 c	956 4/ 5 ·	960 660 c		
เจกบริห์ที่สา					30.13	300	200	13. 600	1 050 000	100 and	72.80	1 576 233	27.500	80000	200000
Operating Income					0/3//6	A. 4 2077	X3.16X	3	20	200					
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Cost of Anergy usage					202 926	219.852	250 646	247 665	203,003	245 242	297,530	新年 中で、四	3.00 1.20	8	X
•		00% s5+			124.91	135,223	4	SC6 47:	990 999	7		1000000	0000		•
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TO SECTION OF THE PROPERTY OF					58.353	58.350	35.35	58,350	36.350	58.350	68.36	68.350	68,350	020.60	230
7.00 mg/s					75, 552	367.55	28674	92,381	000,74	101 850	256,342	5866.0	70.67	542,244	\$45 %.
Secalm					195/62	25.134	25,394	27,75	661.83	\$10 De	50,053			27, 46	
rian's Malebranee					38 S	11,43.	1.00	500	127.128	949'88's	140 050 100 000	15.6 25.5	24 C C C C		
445		94 000			25.076	622.90	450 	9269.1	122,516	50 (50) 10 (50)		4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7.7	. T
N. A.	\$,000	3			2000	7.35.5	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2 (C) (C) (C) (C)	9 CC CC CC CC CC CC CC CC CC CC CC CC CC	e en en		9,6	1 1988 C		
30 Applies & Cost (2)	34.5%				15	30 00 V	624 - 5	258 GS	23.77	- 50 also	01	50 G 47	201	900	
Analysis 005					3, 28	40 225	43 536	47 052	948.05	55.086	4.965	54.463	6.00	800	A.
(d)solvag delamostro startio	0000				3.1.5	155 B	7237	7.422	50572	F. 7.	0	S	- S - S - S	, , , , , , , , , , , , , , , , , , ,	4
Others outsourcing Service					7 1. € €	450 B	C 843	¥,	9	12.453	50 : 17 : 17 : 17 : 17 : 17 : 17 : 17 : 17	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	71 . 71 . 71 . 81 .	3	वि । १
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entransista de la companya della companya della companya de la companya della com					4.41.7	225.474	47.4 47.5 47.4 47.5	7/7 528	7.78 100	27.2.29	7/7 734	9	7.77.4	7.7	
					24.5.45	160 65	44.544	625 ac	625.58	66.929	SEC 65	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1000	1.5 3.44	1
Nethur Protestan Tax	COT AL				₹ 1.	00x 42	00**	38.36	086.47	335	33.	9.7	j		3
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Coera no Coera			Section for the Commence of th		10	37.70	300	200	246.32	53, 25		1000	1.5675	13.44	2000
Costation Indian					200	000 000	00200	010000		200.00		01000			
manasi Paymant Filmonia						054, 54 14 15 15 15 15 15 15 15 15 15 15 15 15 15	064,755	92, 550	55 456 55 456	35,52	10 m	3		3 (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	100
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Cast Fow					98 GC	730 483	98 G.	Sec 251.	1. 2. 3.	25,473	385.14	# 15 H	5		
The openior of Warehold Clark					150.07	20 C	200 ON	FT 7	F-1 2	000	C99 : .	i i	1 1		•
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Project Year		1	1116		2.111	2,111		2,111	2,111	2,111		2,111	2,111	1.5	- 3 V
Comestic		- Q	, 9		8	200	200	8	905	20S	- 1	ş	8	36	6
Industrial		ı	2,400	1	248	2,400		2,400	2,400	2,400	ı	2,400	2400	387	
Total		1		ı	ÇW.	80		1,000	1,000	1,000		98	8	1.000	5
		8,	3 :		1.67	1.67		1.47	147	1.47	1	147	1.47	1.47	-
		ı	200		0500	050.0		0900	0.050	0.050	ŀ	0.050	900	0500	5 (
Inflation rate		000	2000		2312	2.427		2.676	2.810	2.950		3253	3,415	3.586	rs (
Inflation rate(98P)			2 2 2 5		2.453	2,575		2.839	2.981	3.130	- 1	3.451	3.624	3.83	
innetion rate(V/F)		ı		١							ŀ	54.6	3	3	7
Comments		2.42	2.42		2.66	2.66	2.92	2,92	2.62	2 5		4 5	, ,	2	ě
200 Paris			2.42		2.66	\$ 2.8	2 92	2.92	2.62	77 6	ľ	22.5	2 724 264	2 775 751	2.25.2
Domestic		ı	1,961,383	2,047,521	2,047,521	2,047,521	2,262,274	2,252,274	2,252,274	TUC, 114,5	708.36.3 708.86.2	266 807	645 488	645.488	645,448
mdistrial		ł	440,677	ľ	484.865	484,965	533,461	533 401 5 786 776	27,857.6	100	ľ	3064.306	3,370,739	3,370,739	3,376.7
Operating Income		2,302,260	2,302,280	`\	87.7	8	1 10	8	8	1.10	1	8	1.10	8	4.1
			3											;	1
The same of the sa		387 809	407,199	427,559	448,937	471,384	494,953	519,701	545,686	572,970	601,618	631,699	663,284	696.449	131,271
Cost of energy usage	STP	213,469	224,142	235,349	247,117	259,473	272,446	286,069	300,372	315,394	331,160	247,748 2000ac	200	242,539	4267
	8	174340	183057	192210	201820	211911	222507	233632	245314	257579	100 000 100 000	730.045	242.492	254 617	267.35
Cost of chemical	•	141,780	148,869	156,313	164,128	172,335	180,961	189,999	340,499	203,474	/ W. A.C.	280,022	200 A74	318,647	8
Wages Sociel Securities		177,435	186,307	195,622	205,403	215,673	226,457	237,780	899,657	26,26	03.67	9. 69	66,350	68,350	88
	Salaries(p)	68,350	66,350	66,350	68,350	68,350	SE	20.35	20,000	20,000	24.47.8	22.25	223.445	245,113	257.3
	Salanes	136,455	143,313	150,478	158,002	165,902	197,977	(57.616	60.497	53.521	865.598	70,032	73,534	77.2
	Social Insurance	40,946	42,984 4	45,143	47.401	77.60	724.007	707.300	500,490	270.892	254,437	238,659	313,591	329,271	55
Parts, Maintenance		183,350	192,518	202,144	162,212	200	214.063	224 787	236.027	247,528	260,219	273,230	296,892	30,237	316.2
	STP	167,740	176,127	184.955	8-14-	18 975	10.924	20,920	21,966	200	24,217	25,420	36.780	28,004	8
	ŕ	10,01	10,38	12.5	13,495	14,170	14,678	15,622	16,403	17,223	18,064	18,909	19,938	20,935	
rec.	Acetonia contribi	60° 65°	39 109	39,109	39,109	30,109	39,109	39,109	39,109	39,109	39,109	39 199	30,00	39,109	8 9
Analysis posts	/ Jhann cuc fue n	198	87.004	91,355	85,922	100,718	105,754	111,042	116,594	27	38,545	24,972	147,747	, 60.04 C.55	2 4
	Others outsourcing Service(b)	8,942	8,842	8,842	8,642	8,842	8,842	8,842	8,842	¥ [200	2000	om cr	177	
Others outsourcho Service		18,733	19,669	20,653	21,686	27.70	23.58 13.58 13.58	20.00	855.05	110,12	925,500	971.778	1.020.367	1.071,385	1,124,9
W. & S for Administration		596,587	626,417	657,738	690,624	720,136	519,197	404,404	24,800	2,660	256,600	216,600	216.600	216.68	216,6
	Salanes(P)	216,600	216,600	216,600	216,600	004,812	200,017	200,012	645.737	678 024	711.925	747.521	784,896	824,142	965.3
	Salanes	458,913	829	205,952	00%,150	710/100	175,711	104.496	193.721	203.407	213,578	224,256	235,469	247.243	2596
	Social insurance	137,674	960,000	00),FCF	167,650	162,652	162,652	182,652	162,652	162,652	162,652	162,652	162,652	162,652	25
Deproation		174,552	162,652	20.00	102 946	108.093	106.093	106,093	113,498	113,498	113,498	521.611	119,173	119,173	X)
			27.74	87.773	87.273	91.637	91,637	91,637	66,218	96,219	96,219	101,030	101,030	101,030	8
	Meture Protectors and	30	427.0	9.724	9,724	10,210	10,210	10,210	10,721	5.72	6	11,257	11.257	757	ר ו
	Road Tax	5,865	9	5, 94 9	5,949	6,246	6,246	6,246	6.558	6,558	3	388,3	988'0	800	. 65
Omer G/A		84,749	86,986	93,435	98,107	103,012	106,163	113,571	007	717'07'	36.	17.	17	4	}
		1,16	Ę.	12	1.22	128	1.28	1778		ķ	<u> </u>	į	į		
•		076		40 240	070	19340	19.340	19,340	19,340	19,340	19,340	19,340	19,340	05.6	\$. \$4.
Pulland Chage(p)		22.55	23.50	23.508	23,508	24,683	24,683	24,683	25,917	25,917	25,917	27,213	27,213	27,213	2
Pulloton Chage			55,841	6.426	61,426	81,426	67,568	67,568	67,566	74,325	74,325	2	61.59	50,150	0
ingrammy for the new necessary			2,114,156	2,208,201	2,301,085	2,404,935	2,513,482	2,621,006	2,740,545	2 665 847	2 990 320	3177.087	3277.00	34.00.00	7
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Net Profit		20,000	20.00	212.440	136.610	51,067	214,781	127,220	28,642	203,922	102,559	-10,843	176,403	59,003 59,003	4
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		287,783	287,783	316,561	316,561	316,561	348,217	348,217	348,217	363,639	383,039	382,038	X 17	786,128	4.080
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Administration</td><td></td><td>ייניי</td><td></td><td></td><td>216.600</td><td>216.600</td><td>216,600</td><td>216,600</td><td>216,500</td><td>2:6,600</td><td>216,600</td><td>216,60</td></tr><tr><td>(F) Series (F)</td><td></td><td>4.0</td><td></td><td></td><td>310,611</td><td>326,141</td><td>342,448</td><td>359,57</td><td>377,549</td><td>396,427</td><td>416,248</td><td>37</td></tr><tr><td>SOURCE SAL SCOOL</td><td></td><td>•</td><td></td><td></td><td>93,183</td><td>97,842</td><td>102,734</td><td>107.87</td><td>113,265</td><td>18.928</td><td>124,674</td><td>0</td></tr><tr><td>Sold Post (Section Control Post (Section Con</td><td></td><td>a0</td><td></td><td></td><td>825,474</td><td>825,474</td><td>825,474</td><td>825,474</td><td>825,474</td><td>825,A74</td><td>425,189</td><td>259,75</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>88,929</td><td>68,929</td><td>88,929</td><td>93,375</td><td>3/5/56</td><td>0 0 0 0 C</td><td>2,68</td><td></td></tr><tr><td>Nature Pr</td><td></td><td></td><td></td><td></td><td>066.0</td><td>800</td><td>267°C/</td><td>00.00</td><td>00.8</td><td>8.820</td><td>9.261</td><td>9.26</td></tr><tr><td></td><td></td><td></td><td>000,8</td><td></td><td>200</td><td>5 139</td><td>439</td><td>396</td><td>5,396</td><td>5,396</td><td>5,665</td><td>2,66</td></tr><tr><td>#50'≠ X8' D90'Y</td><td></td><td></td><td>40.561</td><td></td><td>57.361</td><td>80,229</td><td>63.24</td><td>56,400</td><td>69,723</td><td>73,209</td><td>76,869</td><td>20.7</td></tr><tr><td>Coner G/A</td><td></td><td></td><td>1.00</td><td>8.5</td><td>1.05</td><td>8.</td><td>50,1</td><td>1.10</td><td>1,10</td><td>1,10</td><td>1.16</td><td>•</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>400</td><td>46</td><td>024 7.</td><td>17 759</td><td>18.288</td><td>80,80</td><td>8 9</td><td>5,6</td></tr><tr><td>Pullution Chage(p)</td><td></td><td></td><td>2,61 2,824 to 2,63,45 to 2,63,45 to 2,63,45 to 3,63,45</td><td>20,704 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3</td></tr><tr><td>E.A.I.B.T</td><td></td><td>•</td><td></td><td></td><td>-1,013,853</td><td>-878.447</td><td>288,088-</td><td>-970,000</td><td>061.074.1</td><td></td><td>789.77</td><td>2000</td></tr><tr><td>Accumurate Profit(loss)</td><td></td><td>•</td><td></td><td>•</td><td>4,216,193</td><td>040,4</td><td>770,000,0</td><td>0 C</td><td>070,000,1-</td><td></td><td>0</td><td></td></tr><tr><td>Corporate Profit Tax</td><td></td><td>•</td><td></td><td></td><td>1 042 853</td><td>7878-</td><td>-890 882</td><td>-910.653</td><td>744,145</td><td>-751 319</td><td>-387,732</td><td>-80,07</td></tr><tr><td>Net Profit</td><td></td><td>3.9</td><td>271314 - 285,349</td><td>169,255</td><td>188,379</td><td>-52,973</td><td>-65,408</td><td>-85,179</td><td>81,328</td><td>64,155</td><td>37,457</td><td>189.57</td></tr><tr><td>Chambo in Working Cap.</td><td></td><td></td><td></td><td></td><td>5,666</td><td>25,168</td><td>2,00</td><td>2,000</td><td>30,647</td><td>7,595</td><td>2,700</td><td>1, 6</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>190,305</td><td>215,472</td><td>222,472</td><td>229,473</td><td>260,120</td><td>267,719</td><td>01407</td><td>202,300</td></tr><tr><td>Principal Repayment</td><td></td><td></td><td>0</td><td>0 0</td><td>C</td><td>0</td><td>0</td><td>DX 1.42</td><td>AG 601</td><td>56.580</td><td>25,757</td><td>15,15</td></tr></tbody></table>										

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				157,550	162,702	184,538	308,190	215,472	222.472	229.473	07. 063	e e	n e a	- C 120
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Denlary Value	2012	2013		2										***
- 1	,,,,	2 44.	2111	1	2.111	2.111	2,111	2,111	2,111	2,111	2,111	2,111	1117	2.5
Comestic		255	90	8	800	900	8	8	800	200	9 9 9	Ş	8	36
Industrial	3	2000	200	2,400	2.450	2,430	2,400	2,400	2,400	2,400	2.400	2,450	2.400	2,400
lotal	300		000	1 000	000	000	1,000	0001	1.000	1,000	3.000	8	00.	3
	247	47	1.47	1.47	147	1.47	1.47	1.47	1.47	1.47	74.	1.47	1.47	74.
lofation rate	0500	0.050	0.050	0.050	0.650	0.050	0.050	0.050	0.050	0.050	0800	300	2000	2000 C
inflation rate(98P)	1.997	2.097	2.202	2.312	2,427	2.55	2,676	2.810	2,950	2 10 10 10 10 10 10 10 10 10 10 10 10 10	2570	0.40	200 ×	2968
Inflation rate(97P)	2.119	2.225	2 336	2.453	2.575	2704	2.839	2.961	351.5	3.201	10.00	200	2	
antf				18.5	186	80.5	100 F	3.08	3.38	3.38	3.36	3.72	5,72	3.72
Domestic	2.5	3. N	2.80	8.6	9 6	900	9 6	80° K	8	338	98	3.72	3.72	3.73
ndustrial	2.54	25 25 27	2.80		707	300	200,000	2 27 6 020	2 F.OR 133	5 608 133	2 608 133	2.866.946	2,668,346	2,858,546
Domestic	1,959,529	1,959,529	2,155,482	289,661,2	6103,402	7,37	561 580	561.589	617.748	617 748	617 748	679,523	679,523	679,523
Industrial	454,123	404.123	00000	250.00	A 20.00 A 10.00	2 649 646	2 572 639	2 932,619	3.225,681	3.225.863	3,225,881	3,548,466	3,548,469	3,548,409
Operating Income	2,423,652	2,423,652	2,666,017.	/(000,UT/	7.0000.7	0.00000	4.00k(0)	1.00	1 10	100	00.1	01.1	3	8
	1,8	3.5	1,10	3	3	2.	3	3	•	•	3			
Operating Cost		2	699 600	140 004	A87 174	404 063	519 701	545,686	572,970	601.618	631,599	663,284	696 443	731,271
	387,809	407, 199	427,308	70,000	100	130 446	200 000	300 379	115.701	334 160	347.718	365.104	383,359	402.527
	213,469	224 142	235,349	24/ 11/	529,673	044.7/7	600'007	30000	953536	2000	180690	08480	343086	32876
PS	174340	183057	192210	201820	211911	/06777	72207	#15C#7	50000		20000	742.402	954 647	26.7.367
	141,780	148,869	156,313	164, 128	172,335	180,951	189,999	664,661	474.60V	7 7 7 7	00000	7. 7.	£44 0 0 C	70.00
Webes Social Securities	177.435	186,307	195,622	205,403	215,673	226,457	237.780	249,668	707,137	007'07	C70'697	414,000	000	200
(n)seneral	68.350	68.350	98,350	68,350	68,350	68,350	68,350	68,350	68,350	68 330	8	00.33	2	3
a decide	136 488	143 313	150.478	158,002	165,902	174 197	132,907	192,053	201,655	211.738	777.77	44,000	240,047	76.7
Constant leight	40 946	400 00	45.143	47.40	49,771	52,259	2,872	57,616	60,497	63,521	869.88	2000	1000 C	7//
	046.54	102.518	202 144	212.25	222.864	234.007	245,707	257,993	270,892	284,437	298,659	313,591	329.27	345.73 X
Farts, Metallenence	55,55	751 371	184 933	194 180	203 889	214 083	224,787	236,027	247,828	260.219	273,230	286,892	30, 22	3.6.29
100	****	, u	17.24	18 071	18.975	19,924	20,920	21,366	23,064	24,217	25,428	26,700	28.034	X 4.67
	1.664	03.5	C28 C+	13.495	14.170	14.878	15,622	16,403	17,223	18,084	18,989	5,938	20,305	24 26 26 26
redi	20100	39 109	39,109	39,109	39,109	39,109	39,109	39,109	39,100	39,109	39,109	39,109	39,109	29,100
	20,000	87.00	91,355	95,922	100,718	105,754	111,042	116,594	122,424	128,545	134,972	121,721	48,807	2000
Colonia Coloni	20.00	A 14.2	8 842	8.842	8.842	8,642	8,842	8.842	8,842	6,842	6,842	8,842	20.0	200
Others Authorities Septime	18.733	19,665	20,653	21,686	22,770	23,908	25,10	26,359	27.677	29,061	30,514	32,039	3000	20.00
W. E. Stor Administration	596.587	626,417	657,738	690,624	725,156	761,413	799,484	839.458	881,431	925,503	971,778	1,020,367	1,007,383	70.07
Salanes(P)	216,600	216,600	216,600	216,600	216,600	216,600	216.600	216,600	216,600	216,600	216.600	276,600	33.55	20.00 20.00
Selence	458.913	461,859	505,952	531,250	557,812	585 703	614,968	645,737	678,024	711,925	747.52	26.836	824.144	000
Social Insurance	137,674	144.558	151,786	159,375	167,344	175,711	184.496	193,721	203,407	213,578	774,235	604,002	247 147	00'807
	174 552	162,652	162,652	162,652	162,652	162,652	162,652	162,652	162,652	:62.652	162,652	702,201	700,201	20,20
Taxas.	98.D44	102,946	102,946	102,946	108,093	108,093	108,093	113,498	113,498	113,498	119 173	119,1/3	275.25	6.00
Net compared Protection	83.117	87.273	87,273	87,273	91,637	91,637	91,637	96,219	96,219	98 121 120	101,030	000.01	000,00	0000
var whemod	0.28	9.724	9.724	9.724	10,210	10,210	10,210	10,721	10,721	10,721	11,257	757	Q.	170'1
xe L bead	4,665	670 5	949	5.949	6,246	6,246	6,246	6,558	6,558	6,558	988's	6,886	9889	27
A/O seeds	84 749	88,986	93.435	701.96	103,012	108,163	113,571	119,250	125,212	131,473	138,046	144,949	32,139	909'86
5	1.16	1.22	1.22	1.22	1.28	1.28	1.28	7.	Ž.	ğ	. 4	1.41	4.	~
		:		4	0,00	0,000	070.00	0.00	087.01	10.340	037.01	19.340	19.340	19.340
Pullution Chage(p)	19,340	19.340	0.00	19,340	040,80		19,000	5,0,4¢	55.040	25.047	27.243	27.2.13	27.213	28.574
Pullution Chage	22,388	23,508	23,508	23,508	200,47	700.	7000	71.23	78.244	78.744	78.744	85068	86.068	86.058
Prepairing for Bed Receivables	58,786	8	¥ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ 60 E	20.00	770 243 0	2 624 668	2 744 108	2 869 765	2 504 239	3.131.906	3 276 962	3,421,055	3 579 671
Operating Cost	2,036,731	2,117,101	255.00	767 707	257.844	415.575	308.051	188,511	356,115	231,642	93,975	705,172	27.4%	~ ~1,202
ereding From	78.400	030 C. 7	263.485	370 546	17.041	321 923	295,047	266,290	235,519	202,594	167,365	129,670	900°58	46,178
interest regiment	20,74	108 409	62.122	8 822	89.198	39,55	13,003	877,775	120,596	29,048	-73,390	141,837	38,079	77,38
Accuminate Profitiess)	8916.648	-9.023.055	8.960,933	8,969,755	-9,058,953	-6,965,301	-6,952,298	-9,030,076	-8,909,481	-8.380.433	-8,953,823	-8,811,986	-8.773.907	-8,851,288
Compaste Drofe Tay		0		0	0	0	0	0	0	0	0	0	P :	3
Net Profit	47.201	.106,408	62,122	-8,822	-89,198	93,65	13,003	-77.778	120,596	29,048	73,390	14.837	5/0.85 (8)	1957/7·
Cash Flow	127,351	56.244	224,774	153,829	73,454	256,303	175,655	84,873	283,247	191,699	89,261	55 TO S	06/30/ 9	25,00
Changing in Working Cap.	0	0	30,296	0	0	33,325	0 1	9	2000	2 2 2 2	356 508	442.660	947 550	25.55
	302,957	302,957	333,252	333,252	262,656	7/0000	1,000,000	70.000 00.000	470.154	503.276	508 505	576,200	676.534	659,692
Principal Repayment	273,749	292,911	313,415	335,304	929,956	25.	410,063	400'00	2	200	200	227 73		100
						222 628	75.655	2		68018	7770	3	3	

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Column			ı			355	1,553	1616	C 3 4	1 747	00× 1	589	\$			
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1000 1000					8		1,032	1.031	25.	1.028	25.5. 23.5.	- 55	39		14.	1.47
100 100 100 110			0.054	0.050	9500	0.00	0500	900	0600	0500	0500	0.050	050.0	ļ	0.050	600
1,000 1,00		500	3 5	900	22.5	1 168	1236	1 287	1.352	1.419	1.490	588	1.643		1.811	8
Section Sect	neutra reservação y de la compansión de	3	8	1 124	8	1 239	5	1366	1.434	1 506	1 581	1,660	1.743		4 927	2.03
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10,000 1,0]	1.63	1.83	201	201	223	221	221	2.2	7.7%	74	26
1,000 1,00	левис					993,910	1,037,326	1,188,817	1,236,576	1,411,959	1 470 959	1,525,960	1,747,855	3611.960	19/6/6/	4 400 A
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Justinal					333,975	333,975	367,373	367.373	404 10	404 110	0110	76.37	70 370	70° 440° C	200
The color of the	serating income					1,327,885	1,371,301	1,556,190	1,603,948	1,816,059	1,875,086	1,534,059	2,182,376	70-00-7	2, 35, 40	1
Part Part							1.03	5.13	- 63	1,13	20.	3	2	3	82.9502865	-
Simple Sign	SE OF SHEET VINEOR					202,929	219,852	233,449	247,865	263,033	280,242	297,830	316,488	336,146	357,204	365 PK
State Stat			106,900			124,811	135,220	141,846	145,605	156,046	164,344	172,398	190,857	189,058	220.65	203,30
Substance Company Co		55,840				78118	84633	91604	38086	106987	115898	125432	135630	140478	2000	200
State September State	ist of chemical		7.00	21,000		82.896	89,808	94,210	96,832	103,641	50,00	14,502	021.021 820.344	376.63	450 030	20.03
State Stat						103,742	082,801 085,83	374,375	080,031 08,350	8,58 8,75 8,75 8,75 8,75 8,75 8,75 8,75	COM, 26.	050.85	98.35	68.350	68,350	68,35
State Stat	(a)salanae(b)					0000	3 5	00,000	00,000 00,000	92,550	88.88	3	112,289	117.804	23.799	129 88
Part Part						25.52	25.138	26.394	27.714	39	30,555	32,063	33,687	35.371	37 140	8
Page Page						105,069	113,831	119,662	125,798	132,198	139,516	146,699	154,259	162,153	70,587	174 61
Committee cost(P) 26,340 5,000 5,000 7,500			84,000			98,074	106,253	111,460	176,928	122,618	129,138	135,467	142,114	149,037	56.427	159.75
Analytes coset(*) 20,544 5,000 29,472 30,325 11,774 6,125 6,127 30,472 3	Sa	5.000				6,995	7,578	8,202	6,870	6,580	10,378	11.231	12,145	13,116	951,47	8 5
Analytic cost() 26,540 29,947 20,947 2			2,000			5,838	7,36	7,746	£ 1	3,522	8,975	9,415	9,876	10.30	500	2 5
Chiefe Substituting Chiefe Substituting		26,940				29,972	30,925	31,879	32,832	33,774	200 20	35,V12	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	96,000	25.159	78.91
Social Insurance Social Insu		9				87,120 8,776	6,223 6,923	7.202	200.7	7.635	7.877	61.6	8,361	9	28.	80 40
Social Integration Solitonew(P)	Service Consoling Service	3				90 90 90 90	8	9,843	40.00	11,496	12,453	13.478	14,573	15,739	8.91	49.
Solution	& S for Administration					348,812	366,253	384,566	403,794	423,983	445 183	467.442	470 024	515,355	2	99
Salanes Scalines Scales						216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	2,6,600	276.600	20,002
Social Inflatance	Salanes					268,317	281,733	029.057		140,000	200	10,000 10,000	112.365	118 928	124 R74	3
Nature Protection Tax 71,800 71,8						825.474	070'50	825,474	825,474	405.474	825.474	825.474	825.474	825.474	425 189	269.75
Native Propertion Tax 71,800 71,800 71,800 75,390 75,3	and a companies of the					16.48	46.694	169.48	88.929	88,929	698 929	93,375	93,375	93,375	58,044	3
Property lax		71,800				71.800	71,800	71,800	75,390	75,390	75,390	79,160	79,160	79.160	83,117	83,11
Road Tax	Rorperty tax	-				9.000	8,000	8,000	8,400	8,48	8,400	8,820	8,820	8.820	5.26	8
49,551 52,028 54,050 57,351 60,229 03,241 04,040 11.0 11.0 11.0 11.0 11.0 11.0 11.0 1		4.894				4,894	4,894	4,894 4	5,139	5 139	5 139	5,396	5,396	960	0 9 8 9 8 9	8 6
14,822 15,724 15,724 15,724 15,725 17,729 1	∌r G/A	40,000				49,551	52,028	8 8 8 8 8 8	196,74	90,273	147.50	20,20	08.723	1.10	16	2
14,822 15,293 15,754 16,206 17,729 17,729 17,729 17,729 15,720 17,729 17,729 15,720 17,729 1						3	3	3	3	3		!		•	908	
14,822 15,203 15,754 17,044 17,555 18,091 19,577 20,005 15,093 144 124 124 12,005 144 129 44,12	Littor Chape(b)					14,822	15,293	15,764	16,236	16,700	17,229	17 759	18,288	18,811	19,340	19,340
1,000,140 1,00	lytron Chage					14,822	15,293	2,78	17.048	17,535	18,091	19,579	3.5	20.739	22,386	왕 :
1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 144 1,000 1,	spanno for Bad Receivables					39,837	31,120	35,665	37,097	42,359	44 129	45,899	8 S	8 8	26.30	SK 250 C
1,159.910 574,610 578,	erating Cost					200 102	1 963 987	2 023 616	2002	2 74 26	7222 013	8 3 3	185 ve.	100,000		3
1,159,910 1,171,242 1,045,037 1,052,866 2,916,897 1,923,137 1,753,974 1,923,	erang Profit					001.00	C977.00	0.000	G. 7.	670 640	0.00	678.630	47A 610	A78 610	0.78.610	7.7P.61
(58) (58) (58) (58) (59) (50) (50) (50) (50) (50) (50) (50) (50	erasi Payment					0/0,0/0	378,510 1 171 206	010,070	2/8/010	010,010	010,010	7000	.763.974	777. 992	401.206	42.04
Cap	VI.B. (150000	203.01.11	.3.777.242	-6.440 OAB	-5.356.926	6283350	.7.226.627	7,990,601	-8,768,593	-9,169,799	-9.251.83
-1,159,910 -1,171,246 -1,046,037 -1,062,805 -916,887 -926,414 -543,277 -763,974 -7 -334,406 -345,822 -220,563 -237,333 -91,414 -100,940 -171,809 -61,489 -165,946 5,427 22,111 5,970 26,516 7,375 32,288 -165,946 17,413 194,524 200,494 227,099 234,394 241,759 274,047 2	Contrate Figuritos)					0	0	0	0	0	0	0	0	٥	o	
-334,832 -220,563 -291,313 -91,414 -100,940 -117,803 61,489 -165,946 17,413 194,524 200,494 227,099 234,394 241,759 274,047 2 -0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Don't					018981	-1,171,286	-1.046.037	-1,062,806	-916,987	-926,414	-943,277	-763,974	-777 992	401,206	82
Cap. 5.970 25.515 7.375 7.375 7.375 7.375 7.2.289 7.55.96 17.413 194.524 2.06.494 224.599 274.047 2	Sh Flow					-334.436	-345,822	-220,563	-237,333	-91,414	-100,940	-117,803	61,488	47,481	23,983	187,71
165,966 177,413 194,524 200,494 227,009 204,394 241,759 274,047 2	anging in Worlung Cap.					165,986	5,427	23,111	5,970	26,515	7,375	7,375	32,288	8,69 60,69	8,113	ន៍ដូ
						165,986	177,413	194,524	200,494	227,009	236,384	241,759	276,047	282,048	[2] [2]	2001
15. 25. 25. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	Principal Repayment					0 000	0 0 250	0 878.676	2003 200	117 626	100 A15	. 125.178	25.711	39.490	15.870	58.85

Project Year	202	25			•					l		i		
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Domesuc	2,111		, ,	Ş		Q Y	8	8	88		ğ	8	8	3 3
ndustrial	2		2 400	2,400	ĺ	2 400	2,400	2,400	2,400		8,7	2,400	2.400	3 8
Total	8 2	2,000	300	3 8		200	000	0001	30,1		8.	8	8	8
	8	8	200	2.0	3	22	1 47	4.	1.47	. 47	1.47	1.47	447	. 47
	47)	1000	180	ļ	0.000	0000	0.050	0,050		0.050	900	0000	0.00
inflation rate	0.000	0.00	200			92.5	2.676	2.810	2.050		3,253	3,415	3,58	3/93
mfabon rate(98P)	>	i i	7 7 7 6	2.453		207.0	2.839	2.981	3 130		3.451	3 624	3905	66.0
mation rate(97P)	2.119	677.7	7.000		l								400	000
Tarm	000	2.00	2.06	3.65	ı	3.24	3.24	3.24	3.57		3.57	36.5	76.7	1
Domestic	80.7	8.70	3 6	3 6		30.5	3.24	3.24	3.57		3.57	3.92	385	36
ndustnal	2	2.00	7 7 7 7 8 8 7	7 270 987	r	2 497 976	2.497.976	2,497,976	2,747,774	٠.	2,747,774	3,022,551	3,022,551	3022 55
Domestic	2,064,443	2,004,443	700'C / 2'C	437.870	ï	591.657	591.657	501.657	650,823	650,823	650,873	715,805	715.906	15.90
ndustrial	486.873	450.873	2 804 75.8	28087.8	2 808 758	3069533	3,000,633	3,089,633	3,309,597		3,398,597	3,738,456	3.738.456	3,736 435
Operating Income	000	00.1	1.10	8	1	10	8	8	01.1		8	o.,	8	8
		:	į		700 000	450.00	440.704	545 GBC	672.970	601,618	631,699	663,284	695,449	731.27
Cost of energy usage		407,199	427,559	768,837	47.095	27.0 4.05	276,069	300,372	315,391	331,160	347,718	365, 104	363,359	402 527
SYP	••	241,42	Oscalor Oscalor	201820	211611	777507	233832	245314	257579	270458	283981	296180	313089	32874
*	174340	163057	012281	164 128	172.335	190,951	189,999	199,499	209,474	219,947	230,945	242,482	252,617	8 2
Cost of chemical	177.435	186.307	195.672	205,403	215,673	226,457	237,780	249,669	25.75 25.75	275,260	299,023	303,474	315,05	X 15
Wages, Journ Securities (Selected)		08,350	68,350	66,350	66,350	66,350	68,350	05,50	68,350	8	20.00	713 441	245 113	257.365
Selenes	_	143,313	150,478	156,002	165,502	174,197	182,907	192,053	60,000	63.521	66.688	70,032	25.52	77.21
Social Insurance		42,994	45,143	47,40)	25,24	AC776	245 707	557.005	270.882	264,437	238,659	313,591	329.271	25.73
Parts, Maintenance		192,518	202,144	464.485	20177	214.083	224.787	236,027	247,828	260 219	273,230	266,892	237	316.29
als:	167,740	/7L'0/1	47.74	1508	18.975	9.924	20,820	21,986	23.082	24,217	25,428	26,700	28.034	8 8
		12.240	12.652	13,495	14,170	14.876	15,622	16,403	17.223	18,084	18,989	19,938	86.00	3 2
Fed: Anahasis Ottiff)		39,109	39,109	39,109	39,109	39,109	39,109	39,109	39,100	39,100	30,40	30.00	201,94 708,847	156.24
Analysis cost		87,004	91,355	8,92	100,718	105,754	111,042	16,09	77,474	C#C'071	B RAD	Co	8.842	8.84
Others outsourcing Service(s)		8,842	8,842	6.842	6.64.2 2.42.2	5,047 20,000 20,000	2,245,2	2,046	27.677	190	30,514	32,039	33.64	35,32
Others outsourcing Service	56,733	19,669	20,665	200,17	1,27	785.413	790.484	839,458	881,431	925,503	971,778	1,020,367	1,071,385	124.95
W & S for Administration	/96'090	718,020	218,500	216.600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216 60
		481.859	505.952	531,250	557,812	585,700	614,988	645,737	678,024	711,925	747.52	784,898	824,142	000
Social Page S		144,558	151,786	159,375	167,344	175,751	184,496	193,721	203,407	213,578	20,25	604,007	CS CS .	38.03
Deprotation		162,652	162,652	162,652	162,652	162,652	162,652	162,652	162,632	113.496	119.17	119.17	119 173	125 137
		202.948	102,946	102,946	100,000	91.637	91.637	96219	96219	96,219	101,030	101,030	101,030	88
Nature Protection Tax	•	67.273	07.70	40.70	10.710	10.2.0	10.210	10,721	10,721	0,721	11,257	11,257	11,257	±.
Porperly tax	[27.4 8.4 8.4	9765	9065	969	6,246	5,246	6.246	6,558	6,558	6,556	6,896	6,886	5,886	K1 3
Const City		86,986	93,435	701.96	103,012	108,163	113,571	119,250	125.212	131,673	138,046	3	8 T 7 C	20.00
C S	1,16	<u>.</u>	122	ă	1.28	1.28	1.28	3	Å.	*	į	ŧ	ì	[
		97.07	970	40 740	19340	19.340	19,340	19,340	19,340	19,340	19,340	19,340	19,340	\$. 30.
Pulkaton Chaga(p)	Carlot Cr	904.50	200	88	24,683	24,683	24,663	25,917	25,917	25,917	27,213	27,213	27.213	28.57
	20014	61 833	68 127	66.127	68.127	74,939	74,939	74,939	62,433	82,433	2.433	20.57	1/906	300
Preparity for the receive one	2,041,879	2,120,248	2,214,902	2,307,786	2,411,636	2,520,853	2,628,377	2,747,916	2,873,956	2 998 478	3,136,096	3 284 570	3,425,003	000
Opposite Park Contract Contrac	511,637	433,166		S00,972	307.122	5 88,781	461256	361,117	2404	A.D. 100	.06.30	200	25. 270	46 065
Atament Payment	558,903	537.423	514,009	466,485	460,671	430,349	307.200	361274	, 25,00°	20000	890 00	775	186.52	88 32
EALB.T	47,386	-104,255	79.848	12.40	63,549	138,431	25.50	000 FO	200,202 8 080 8	CYC 988	A 630 303	8,563,116	8,376,596	8,288,27
Accumurate Profit(loss)	-9,299,206	-9,403,461	-9,323,615	-9,311,131	JOS-4/5-4-	2	(P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0	0	0	٥	0	0	•
Corporate Profit Tax	9	0 90	0.00	,	972.69	178 471	63.957	19.557	202.634	20.02	25,940	275,186	196,521	88,32
Net Profit	4,75	667 67 607 67	242.496	175.135	89.163	30,106	226,600	143,095	365,286	283,614	192,600	437,637	249 177	250 97
Cash Flow	8.4	3	31918	0	0	35,109	0	٥	38,620	0	0	42,482	0	267.30
Changing in women cap.	319,177	319.177	351,085	351,005	361,095	386,204	386,204	306,204	424,825	424,825	22,83	467,307	100.70	§ 5
Described Described	120 874	240 162	CORP. KAME	2000	70672	11.1	97.07	3	8000	20.02	770.00			

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Total Contro	r S	96.7	06.7				74 (**	75 %	60.00	1.5	2.67	38.0		
Compared Compared	3,6,8	F9 2	C 2 0 0 0 0 0 0	ľ	2 22 0 22 0	2007678	7.407 1075	3 647 976	27.67.774	2 .47 . 74	27.67 174	3 002 057		5 8 2
State Stat	0.054 44.3	2 054 443	2 270 887	4	42 4 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	501.657	5.00 to 5.00 t	543.657	810 823	655,823	550 823	715 905	505 U.S.	
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Security Security	2,553,416	2,555,419	00/100	1	000,5000,5	200,000	90	(A) t		53.	8	÷.	ē.	
Fig. 1, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	8.	8	0	3	3	9.	3	3	2	!			,	* * * * * * * * * * * * * * * * * * * *
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Stationes (1) 6, 450 140 140 140 140 140 140 140 140 140 14	177.435	186 307	195,622	205,403	715,673	276.457	097,757	8000 600 600 600	22. 34 CB 3455		057.89	350	Q18 85	188 S
Special may a constitute with the constitution of the constituti	68,350	68 350	86.88	68.350	DGE og	X	000000	60000	301.586	96.2.3	222 226	735.44	200 COL	
Special insurface 40 Spide 45 Spide <td>136,488</td> <td>143 313</td> <td>50,478</td> <td>156,002</td> <td>165,902</td> <td>76.197</td> <td>06.28</td> <td>000/20.</td> <td>60.00</td> <td>22.63</td> <td>55.65</td> <td>725, 272</td> <td>800</td> <td>ŕ.</td>	136,488	143 313	50,478	156,002	165,902	76.197	06.28	000/20.	60.00	22.63	55.65	725, 272	800	ŕ.
Second Insulative Projection Tay 2	40 545	42 964	45,143	47,401	49.771	52,258	24.872	0.675	V84 000	79.06	268 85¢	90000	7. T (S. C.)	ń.
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Anniyese cost() 19 709 10 70 1	11 657	12,240	12.852	00 F 00	0/1/02	201.05	901-96	901.90	901.65	35,106	39,109	39,109	50° +3	A.
Second insurance 17 Second	39.09	200	201 JSS	59,143 66,623	100.718	105.754	8	145.0°	122.424	128,545	134,972	12.	104 52.	*
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Social insurance 137,674 144,556 151,766 159,375 167,344 175,711 144,456 172,724 152,642 162,6	458 913	48 859	505.952	531,250	557,812	585,703	614,988	645 737	678.024	711,925	74/32	980.40		
174 352 162 052 192	137.674	144.558	151,786	159,375	167,344	175,711	184.4	193 721	203.407	979.01X	007.977	E001/E07	C 5 4 6 3 4	
96 Gai 102 Sais 102 S	174 552	162,652	192,652	162,652	162,652	162,652	162,652	162 652	162,652	700'79	20020		7 (. 7 (.	
Nature Protection Tax	98.04	102.546	102,546	102 945	108,093	108,093	108,093	113,498	113,498	9876	0.50	050-01	Cac	er e
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Foad Tax 5,655 5,949 5,549 6,246 6,246 1,245 1,1571 1,525 1,527	9,261	9,724	9226	477.6	10,210	0.210	0.210	:0,721	17/0	0 / 4.		A. A. A. A.	(2) (3) (4) (4)	1
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(a) -6,726,005 -9,403,461 -9,321,615 -9,311,131 -9,374,880 -9,206,246 -6,172,35° -6,19,848 -8,369,214 -6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47.75	570.00	79 845	12 484	-53,548	138,431	736,63	-19,557	202,634	120,962	29-5 69	275, 185	9	4 6
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207.126 56.356 210.550 1.51.35 69.103	177 186	S. 3.	210,580	175,135	69,103	265,974	226,609	143,095	326,665	283.614	152,600	395,355	349.173	.00 H C
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STP 10 PS 55,640 PS 55,640 Selemes(p) Selemes Social Insurance STP 5,000 Analysis cost(P) 28,540				78.61	4 %	1.03	1.93	212	2.12	2.12	2.5	\$	ક્ષ લ	ē.
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Salamas(p) Salamas(p) Salamas Social Insurance Syp PS 5,000 Analysis cost(P) 26,540				27.17	004 A: 3	140 095	185.856	1354,092	1.4.0.674	1,467,256	1,676,222	1,737,610	7,799,650	7.8.7 R
STP 15 PS 55,840 Selanes(p) Selanes Social Insurance STP 5,000 Analysis cost(P) 28,540			. •	20.288	320.288	352,316	352,316	367,548	347,548	387,548	476,303	426,303	476,303	85
STP 55,640 70 Selement(s) 55,640 70 Selement Scalar Insurance Scalar Insurance STP 5,000 PS 5			ŀ	77.463	315 100	1.492.412	1,538,213	1,741,640	1,798,222	1,854,804	2,102,525	2,163,912	2,226,153	9
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STP 55,840 10 10 10 10 10 10 10 10 10 10 10 10 10									•		007		62,920,260	
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PS 55,640 7 Sateres(c) Seanns Social Insurance STP PS 5,000 Analysis cost(P) 26,540	106,900		•	124,811	135,220	141,846	148,805	36.046	47.4	22,336	700,007		158474	•
Salanes Social Insurance Social Insurance STP PS STP PS SA00 Analysis cost(P) 28,540				78118	84633	91604	808	106987	1588	2	200		4.00	
Seianes Social Insurance STP 5,000 Analysis cost(P) 26,540	7,000	71,000		82,896	89,609	9,210	98,832	103,641	55.153	114,502	200		0.000	
Sateres(s) Selante Social Insurance STP PS 5,000 Analysis cost(P) 26,540				103,742	108,930	114,376	120,095	126,18	132,405	020,861	0/6/04/		50.00	
Social Insurance Social Insurance Social Social Insurance STP PS 5,000 Analysis cost(P) 28,540				66,350	68,350	88,350	66,350	66,350	68,350	3	2		3 5	
Social Insurance Social Insurance STP FS 5,000 Analysis cost(P) 28,540				79,802	83,792	87.982	92,381	97.000	101,850	106,942	112,289		27.440	
Maintenance STP SYP PS 5,000 Analysis cost(P) 26,540				23,941	25,138	76,39r	27,714	28,189	30,555	3	3		43 07	
STP PS 5,000 PS 5,000 Analysis cost(P) 26,540				105,069	113,631	119,662	125,798	132,198	139,516	000	67.0		200	
PS 5,000 Analysis cost(P) 26,540	84,000			96,074	106,253	111,460	116,928	122,618	85 55 C	130,404	10.465		14 159	
Analysis cost(P) 26,540				6,995	7,578	8,202	9,670	200	0,4,01	244	0 878		10.871	
Analysis cost(P)	5,000			5,638	A 6	7.746	5,120 5,120	27.00	20,97.5 20,84.5	55.012	28.98	38,039	39.108	
Analysis bost				7/8/87	20,920	853.50	47.083	0.0449	55.085	59.616	2		75,158	
				37,120 R 776	100	7.207	7.422	7,635	7,877	8,119	6,361		3.842	8 8
outsourcang Service(s)				360	200	9	10,644	1,496	12,453	13,478	14.573		16.90	
Carera Charles and Charles and Cha			•	348,812	266,253	364,566	403,794	423,983	445,183	467,442	490.814		20.00	
(d)seceles			. •	216,600	216,600	216,600	216,600	216,600	216,600	216,600	200,000	236,630	20.00	2 1
Selenes			. •	266,317	281,733	295,820	310,611	326,141	32,448	359,571	2007/2	77.00	7,00 74.7	ċ
Social Insurance				80,495	84,520	88,746	93,163	97,842	102,73	10.70r	10760	076 SEU +	836 869	435
Deproation			1,1	035,007	035,007	1,035,007	1,035,007	1,035,007	700,050,r	700,000,T	200'COO'.	375.50	3	3
				84.874	460,40	9 00	676,000 100 100 100 100 100 100 100 100 100	00,400	25.25	2000	25,160	291.62	63,117	83
Nature Protection Tax 71,800				88.5	36	38	0.00	8	000	8 820	8.820	8.820	92.6	Ċ,
				4 80	300	4 80	5,139	5,139	5.139	5,396	5,396	5,396	5,665	Š.
Sec. of Maria and Maria an				40.55	45 CD	Se 630	57.361	60.239	63,241	66,403	69,723	73,209	76,069	8
Case CA				8:1	8	1.00	1.05	8	9.	£.1	1,10	1,10	1.15 5.15	Ψ-
						:					9	4	8 9	9
Pulludon Chaga(p)					15,293	3/6	5,7,7	3,5	000	02.50	20.00	20.739	22,388	22.388
Pullution Chage					15,235 50,000	60/6	2 2 2 2	20,00	62.53	44.018	50.287	52.128	88.83	38
Prepaining for Bad Receivables			r	30,200	42,045	771588	2298157	2 362 144	2 430 596	2 506 388	2,585,124	2,663,075	2 345 354	2 199 6
Operating Cost			֓֟֟֟֝֟֟֟֝֟֟֟֝֟֟֓֟֟֟ ֓֓֓֓֞֓֓֓֞֓֓֞֞֓֓֞֓֞֓֞֓֞֓֞֓֞֓֞֓֞֓֞֓		287444	-739.276	757045	-620503	-832 379	-651,564	-462,600	-489,162	-115.202	745.1
				ŀ	492 541	482.541	482.541	462.545	482,541	482,541	452,541	482,547	402,04	195,561
Interest Payment			1	326 163	1339,685	-1221.817	-1,240,485	-1,103,044	-1,114,916	1,124,125	-965,141	-981,703	-601,743	8
EALB.			*		7.665.847	3,887,665	-5,128,150	6,231,194	7,346,111	6,480,235	-9,445,376	-10,427,079	1,038,622	13.253
Accumulate Promittee					٥	٥	0	•	0	0	0	O	0	
Corporate From Cas			7	326.163	1,339,665	-1,221,817	-1,240,485	1,103,044	-1,114,916	1,134,125	-965,141	261 783	691.743	7
Net Pront			•	291.156	304.078	-186,810	-205,479	-68,037	.79,910	96,118	69,866	53,304	322	181
CABLE TION OF THE STATE OF THE				159,183	5,205	22,18	5,725	25,428	7,073	5.07 C	8	7.67	7,730	2
				159,183	164,368	186,551	192,277	217,705	224,778	231.851	262,816	270,489	278.269	306,090
Principal Repayment				ò	٥	٥	0	0	0 000	7 77	30.00	AK 6.30	10.44	

	100.	870,4	1300	2000	2001	2002	2003	2005	5005	2006	2003	2008	2000	200	,
Project Teat		1.25	1 356	1,423	1, 283	1,553	1,518	1,5833	1.747	1 620	980 c	\$ 1	30.5		
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i.O.'a.						1 032	1 931	000.	1 029	1 052	1 031	020 -	3	3 · 7	
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Inflation rate	•	5 6	1059	1 112	158	1 726	1.287	1355	5.7	4 450	98°.	. 643	ř.		
	3	8	1 24	.80	1 235	130:	3,365	7.77	1506	1 9,81	09.7	· 743	0. 2.20		
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Domestic					1,755	1.76	86 ·	3	er i	2 (4 (1. j	5.7	. /
[ndustral]		ļ			1,755	. 76	, 63 16	3	7.12		430 6 77	100 Sec. 2	3.70%		
Comean					553,176	994,813	\$60'0at';	1.185.495	354,092	4.0574	2	200	0.000		. 3
Section (Section)					320,288	320.288	352,310	352.315	78.7 SAR	347 54R	267	0 400 604 C	300	- F. F.	100
Operation Income					1,273,463	1,315,100	1,492,412	536,213	1,741,640	77.86	400400	2,106.360	2		
					ļ	1 03	<u>.</u>	1 03	(*) 	1 03	50 E	<u>.</u>	3	9. 40.005 6 4d	
					0000	198 010	2000 620	7.7 46.5	563.033	280.242	237 830	315 488	3,55,146		Į.
Cost of energy usage					502.929	200,613	1 d c c c c	144 805	946 346	770	868 671	150 857	900 65		
υ,		8			1/4 811	V22.CV	1000	100 sr.	286.5	115,898	25432	06008	4/14/25		30
S. d.	55 340	:			0 1 1 0 0 0 0 0 0 0	00000	1 c	58.3	198.861	109 153	1.502	120 . 20	238 97.	1	
Cost of chemical		3	3		000000	600 ac.	11.4.376	120,095	201.00	422.405	135 025	346 936	\$14 mm		2
Wages, Social Securities					20000	025.83	5	0.00	0.00	58.350	985.88	06.5 %	3	9.0	.:
Salanes(b)					000000	000 cm	00 00 00 00 00 00	00 to 00 to	900 13	928 : 21	106.942	5900	Y 0.5	. ·	
Calabes					7000	367.00	7000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	50.00	93.5	10.083	30,587		9/2	
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Leau.	0.65	2000			623.50	30.925	00	52,832	35.77	34 841	35,912	Se 963	880 es	2	
(Library conditions)					37:128	40,225	43 53e	47 082	50.845	55,085	3.066	S. 4.5	300 SG		
Analysis con: Others outsourcing Service(p)	0000				5776	6 991	7.207	7,422	7,625	7.877	9 1 5 F	(S)		i	
Omers outsourche Service					A.394	4:034	S 343	0.644	S	12,453	5,476	0.00 to 10.00	60.00	907.	5
W. & S. for Agministration					348 812	366.253	8 1 8 1 8 1	403.796	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	246,100 000,000		0.00		i c	7.
Salanes(P)					216,600	216,606	275 500	2000	7.000	20000	150.671	100			
Salanes					758 347	281,733	0.000	1.00 D.S	0.00 E.S.	250 CO.	107.871	(6) (1)	6.36 C	19 19 19	
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					4.22	5,253	3	982'9,	35.700	5.5.6	95. i	7. i		y	
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Preparent for Bad Receivables					82.50	29 844	34,203	35.577	40 023	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E i			
arajan Cost					2 117 085	2 172 245	2,233,688	7.2% 157	34.2 34.6	7.4.70 Sep	5		100		
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interest Payment					195,562	482,547	462,541	100 CO	682,543	180 ASS	46,264	() () ()		() 	
± 10 − 1 € 2					000000	2009/2007	.101321-	001.001.0	70.	46.	265 CA3 4	Sec. 327 5	100		
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Section 1995 - Casion					2000	5205		5.725	25.429	613	4 943	3	1		
					173,183	154 388	196.551	192 277	30, 1	40 to 10 to		일 (참 다			
TOTAL RECENTANT					0	0	C	0	٥		ا :	,			
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1979.803 1979.803 255 2546.705 254					1	3.42	3.42	3.42	376	3.76	376
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STP 210,469 224,142	_	8,937 471,384	494,953	519,701	545,686	572,970	601,618	631,699	\$67.78¢	200	100 697
Cocambas Salanes (p. 3.350 143,340 143,069 143,069 177,432 196,307 17,432 196,307 17,432 196,307 196,3			272,446	205,069	300,372	215 381	201,150	347.775	2000	000,000	77.000
Socurbes 141,760 148,869 Socurbes Selenes(p) 63,350 63,350 Selenes(p) 63,350 63,350 Selenes 126,428 143,313 Social Insurance 40,946 174,313 PS 167,740 174,127 PS 15,611 12,400 PS 15,611 12,400 PS 15,611 12,400 PS 15,611 12,400 PS 167,740 174,127 PS 16,610 13,911 PS 16,610 13,911 PS 16,600 16,731 PS 16,600 PS 16,600 16,500 PS 16,500 16,500 PS 16,500 16,	_		222507	233632	245314	257579	270456	282361	280,007	20000	7075
Socurties Selenes(p) 60,350 186,307			160,951	189 999	199,499	209,474	219,947	23000	764757	60.00	100 A 100 A
Selenes (p) 63.350 63.550 Salianes 153.450 143.313 Social Institution (p) 17,740 176,127 PS 15,611 16,394 Chrene outsouring Service(p) 29,109 Chrene outsouring Service(p) 29,109 Chrene outsouring Service(p) 18,704 15,004 Chrene outsouring Service(p) 18,704 15,004 Chrene outsouring Service(p) 15,610 15,004 Chrene outsouring Service(p) 15,610 15,004 Chrene outsouring Service(p) 16,704 15,004 Selenes (p) 17,604 102,906 Nature Protection Text C3,117 97,273 Ponyenty Lax 5,605 5,049 Road Text 5,604 102,906 1,774			220,457	227,780	249,669	202,192	Q (C)	570,607	4/4/000	0,0,0	35.00
Selanés 138,486 143,313 Social Insurance 40,946 42,518 Social Insurance 157,740 176,127 PS 17,517 12,240 Analysis cost(P) 39,100 39,109 Others outsourcing Service(I) 39,100 18,281 Ministration Salianes(P) 216,500 216,500 Salianes 626,597 626,417 Social Insurance 137,674 102,596 Neture Protection Tax 92,61 91,23 Porperty lax 92,61 91,24 Porperty lax 92,61 91,24 Road Tax 6,665 5,649 1,156 1,257	_		88.380 SA.380	68,350	Se .	200	8	88.4	200	24.45	26.7.769
Social Insurance 40,546 42,594 143,350 192,518 15,611 16,391 11,657 12,240 11,657 12,240 11,657 12,240 11,657 12,240 11,657 12,240 11,657 12,240 11,657 12,240 12,340 12,340 39,109 13,730 19,699 14,730 19,699 14,599 15,640 16,640 17,73 19,654 16,640 17,73 17,73 17,73 17,74 17,73 17,74 17,73 17,74 17,73 17,74 17,73 17,73 17,74 17,73 17,74 17,73 17,74 17,73 17,74 17,73 17,74 17,73 17,74 17,75 17,73 17,74 17,74 17,75 17	_		174,197	182,907	192,025	201,000	200	277	1000	7.53.6	7.23
10,350 19,516			52.259	7,972	57.618	200	3	000	200	1000	24.4.736
STP 167,740 176,127 PS 15,611 16,391 11,637 11,240 Analysis cost(P) 39,100 39,109 00,2,861 8,462 Urong Service(I) 8,842 8,442 Urong Service(I) 18,733 19,009 Ministration Sallanes 629,13 491,659 Social Insurance 137,674 102,946 Neture Protection Tax 92,61 91,733 Porperty lax 9,261 9,724 Porperty lax 9,261 9,724 Porperty lax 5,665 5,946 1,16 1,22			234,007	245,707	257,993	770,692	2	ACO,067	. Legisla	200	346.08
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11,657 12,240 Analysis cost(P) 39,109 39,109 39,109 39,109 39,109 39,109 39,109 38,109			19,924	88	21,966	8	24.217	25,426	3 6	3000	
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Sulane() 7.15,600 Sulanes 458,913 Sulanes 458,913 Sulanes 517,614 144,559 Sobal Vasurance 137,614 144,559 Sulane Protection Tax 03,614 Porperty lax 03,117 Porperty lax 5,201 Sulane Road Tax 5,625 1,16 1,72	_		CIA,10/	7.52,404	9	2.860	216,600	26600	216,600	216,600	216,600
Salanes 6589.13 481,859 Social insurance 137,674 144,558 Social insurance 137,674 144,558 Nature Protection Tax 93,444 102,946 Road Tax 9,281 9,724 Road Tax 5,685 5,649 1,16 1,72	_		W0.012	2000	20,000	478 CD4	0	747 52	784.898	824.142	865,350
Social Internation 133/674 144,528 319,854 307,953 90,044 102,946 Nature Protection Tax 63,117 87,273 Porpenty lax 9,261 9,724 Road Tax 5,665 5,649 1,16 1,22			3,7	194.406	9	200,407	243 578	224.256	235.469	247,243	259,605
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90,044 102,340 Neture Protection Tex 903,117 9723 Ponyenty lax 9,261 9,724 Road Tax 5,665 5,049 84,749 88,996 1,16 1,22			26,55	108 083	(3.496	113,496	113.488	119.173	119,173	119,173	125,132
Nature Protection 18x 04,117, 07,274, Porperty lax 9,274 9,724, Porperty lax 9,665 5,949 84,749 89,996 1,15 1,22	_		91637	91.637	96.219	86,219	96 219	101,030	101 030	101,030	106,081
Popentylax 8.401 8.746 Road Tax 8,665 5,466 84,740 88,996 1.16 1.72			10.210	10210	16.72	10.721	10 721	11,257	11,257	1.257	28,11
7080 18X 5,000 5,000 6,0			6.246	6.246	6,558	6,558	6,358	6,886	9899	6,886	12
04,749 00,500 1.16 1.22			108.163	113.571	119,250	125,212	131,473	138,046	4,949	152,196	159,806
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Pulkuton Chage(p) 19,340	_	19,340 19,340	19,340	19,340	19340	19.340	19,340	19,340	1976	14,140	78.57
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d Receivables 59,395		•	000'L/	7,000	200	2014 870	2 140 152	010877	3 423 156	3 567 248	3 725 865
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284 125 War 185/795 War	,		078'007	27-72	7007	190 300	200	45.4 5.48	1.36 ACA	95.440	42.75
436,639	412,045 38	į	330,436	300,000	, obj. UU.	737.7	20.00	6.557	35.484	58.450	18,500
-106,054 -250,943	•	• •	010,00	700,001	17 482 047	72.476.50	12 55 66	12 740 427	12,704,938	-12 773 388	12 959 267
-11,458,258 -11,709,201 -11,	7	<u>.</u>		0		0	0	٥	٥	٥	Đ
Profit Tax			25.05	108.057	108.14	7 467	-82,315	-183,557	35,484	-68,450	184,900
250,000 - 400,00	•	•	277.443	150,886	111,813	315,420	225,636	124,396	343,437	239,502	123,054
180'50 000'57'			23.67	0	0	37,038	•	o	40.741	•	448,155
	336.706	336,706 336,706	370,376	370,376	370,376	407 414	407,414	407 414	448,155	448,155	448,155
469.603			506,346	629,313	660,779	693.818	729 500	8	903 181	07. EV	32
Net Cash Flow	1000		243773	100,666	11,813	276,382	225,638	124,390	337,090	Z39 304	27.175

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Pullution Chage(p)	098'61	15,340	263.60	100000	0.55 50	24.0	26.25	76,947	25.047	6.5	27.213	27.273	27.2.7.2	28 574
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Net Profit	4.00 cm	246.00% 4.00%	21007-	185.145	97.4.RH	277.443	388 601	111.813	315 420	225,638	124 356	343.43	239.50	47.0 57.5
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	459.60		517,737	543.536	570,405	500,306	629,313	646,779	693.818	728,508	75 e37	A03 181	843 340	765 507
New Cash Films	123.800	57.011	201 532	165,145	AC. 476	243,773	195 nats	111,813	276,382	225,656	124 396	332 696	739.55	571.25
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Industrial 1,629 Total 1,629 Inflation rate (APP) 1,000 Inflation rate(A		Ą	1,338 850 800	Domestic 1,234 1,423	8 8	36	, Q	} §	8	8	8	200	800	Ş	"
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	1,025	1000	3	ľ		3.035	1031	1 030	1.026	1,032	1.031	000.	20.	070.	-
				8	1,13	1.17	1.20	124	1.27	1.31	138	1.38	1.43	120	988
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	000	8	1,059	1.112	1.168	229	1,287	1,352	5	9	8	2 5	<u> </u>	. 60	200
		1.061	1.124	1.180	1.239	1 301	1 366	1.434	1506	1581	096.1	3	200	2000	
								80.4	3, 30	3.70	200	2.52	252	2,27	•
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						100	200	27.066.6.	* ACA: 554	1 816 188	1,580,122	1,805,162	1,871,272	1,538,500	2,32,1
				3,4	25,497	77.00	270.72	612070	417.359	417,359	417,359	459,095	459,095	459 085	505.0
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					5	000	223.449	747 BAS	263 033	280.242	297,830	316,488	336,146	357,204	355,342
Cost of energy usage		000		1 -	26 844	135,220	141.846	149.805	156,046	164,344	172,398	180,857	189,668	199,072	203
er e		3		-	78118	84633	91604	09086	106987	115658	125432	135630	146478	158131	3
î	26,3	200	2,000		82.89	89.908	94.210	98,832	103,641	109,153	114,502	120,120	125,972	122,718	S. S.
Cost of chemical		3	30	*	03.742	108,930	114,376	120,096	126,100	132,405	139,025	145,976	155,275	60,000	g è
Wages, Social Securities					58 350	68.350	68.350	68,350	69,350	68,350	68,350	68,350	26.50	3 5	8 8
(d)seuges					79.802	83,792	87,982	92,381	97,000	101,850	106,942	112,289	36.5	8/07/	7 6
					23.92	25,138	26,394	27,714	29,100	30,555	32,083	33,567	200	75,75	8 .
				,-	690'90	113,831	119,662	125,798	132,198	139,516	146,699	707.VO	201.70	10000	9
QT2		84,000			98,074	106,253	111,460	116,928	122,618	129,138	35,45	45.45	() () () () () () () () () () () () () (20, 20	9 4
	5.000	<u>:</u>			6,995	7,578	6,202	8,670	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10,378	2	2 H 7 O	45.0	.0.	7
		8,000			5,838	7,384	7,746	8,126	775	076.0	1 2	200	860.86	60	o E
Analysis cost(P)	26,540				29,972	30,925	31,879	32,832	() () () () () () () () () ()	20,25. 20,25.	50,516	56.49	69,619	75,158	78
					97,72	0 0 0 0 0 0	0000	3 5	4.5	7.877	60	1963	8,600	8,642	क्ट
Service(p)	6,000				9/5	200	() d	1, 1	96	12,453	13,478	14,573	15,739	16,991	
Others outsourcing Service				ئم	48.85	366.253	384,566	403,794	473,983	445 183	467,442	490,814	515,365	2.2	g S
Wisk 10t Administration					15,600	218 800	216.500	216.500	216,600	216,600	215,600	216,600	216,600	216,600	2.6
(T)secology				4 6	68 317	281,733	295.820	310,611	326,141	342,448	359,571	377,549	396,427	416,248	437
SACISTICAL PROPERTY.					80,495	84,520	88,746	55,183	97,842	402,734	107,871	113,265	116.928	124,874	
				0,1	35,007	700,550	1,035,007	1,035,007	1,035,007	1,035,007	1,035,007	7,035,007	1,030,000,1	008,070	i d
Tokes					84,694	94,694	84,694	88,929	98,929	86,929	93,375	95,579	9 5 5 6 C	00°00°00°00°00°00°00°00°00°00°00°00°00°	ŠĘ
Nature Protection Tax	71,800				98	71,800	7.800	75,390	080.07	96	00-18 00-18 00-18	000	8,00	8.26	0
					8,000	90,	30,0	86	200	4 4	900	900	390	390'S	ัษรั
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Other G/A	8				100 g	27,75	26	90.	20,00	90,	0;;	1.10	. £	1.16	•
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						15.233	15.764	16.236	16,700	17,229	17,759	18,288	1881	9.040	on i
Pullution (mage(p))					14.822	15,293	15,764	17,048	17,535	18,091	19,579	20,153	20,739	22,388	EN E
Description for Bad Decelular				-		32,140	36,834	36,314	43,748	45,576	47.	8 8	8 2 198	200	3 6
Oneraling for the control of the con				2,4		174,540	2,234,319	2 299 894	2 365,268	7,433,853	2,509,774	2,500,5	CBO / PG 7	000.64.7	
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Johanne Perment						675,557	675,557	675.657	675,557	675,557	675,557	/cc/c/2	00000	50,000	
EALBIT				4,14		,433,835	-1 302 664	1,317,914	1,165,213	-1 172,863	7,787,630	267,000,1-	047 060	200, 120 1 6 4 6 73 6	75.87
Accumurate Profit(loss)				4		.857,994	1,160,658	2/18/2/2	3	00007			0	0	
Corporate Profit Tax				,	•	0	0 2000	2,3	1 466 242	C 477 863	1197.850	1 000,292	-1 012 275	-627,670	-242.5
Net Profit				4 <u>.</u> ć	7	545.035 0.05 0.05 0.05	750,000	800 C8C	120,013	127 857	-152 843	34.714	22,732	1,297	1727
Cash Flow				?•		5,605	23.869	6.156	77.384	7,617	7,617	33,347	8,284	6,378	8
Changing in Wonding Cap.					171.428	17,033	200,902	207,067	234,452	242,068	249,685	283,032	291,296	239 674	325,622
Manual Charles					į	0	0		0	0.2	0	٥	0 20	0	

25	erust # 7%)			(A)	N. C.		200	2.00	7000	7005	2002	250;	2009	2005	2635	253
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	Industrial		265	1.00	İ	17.7	362	360	3.0.3	7.0		<u> </u>	20	7 7 7	, 65,	
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						5, ,	-	2 23	7.	. 27		66.	7: -7: -2: -7: -7: -7:		2	
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	inflation rate(SSP)	000.	• 030	360 ·		0	A A	27		e alla		090	.0	Cor.		1
	inflation ratio(97P)		.83	1.126	ĺ	2.3	(AC)	100	404							
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	Corneste				j		- F	। । ।	. Š.	Z.		Χ.	S &	13° 6.		
The color of the	industria:					2007	574.337	22.735	ÇL.	102 of y	ľ	37.000	70.0%	7.2.		(1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Fig. 12 Fig.	Distriction of the state of the				-	322.525	344 925	370.41A	9190	500 E 17		411 355	41.69 65%	7.45 C45		
15 26 60 10 10 10 10 10 10 1	ndushia.],		3-1-22	475202	1,607,273	1,635,037	. 1,875,812	ľ	1,697,485	2.264.257	2,330,367	2,397,365	S. C. 1.50.5
The control of the	Charles and an arrangement	-	-				3	7	ίς.			3	,	;		
Column							:	;	1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	COM LOC	643 D.C	53. (4)	420	G 50 50 5
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Fig. 1999 Fig.	LT)		105,900			124 837	5000	200	00000	Larger.	100	3880	08956	a 27'99'	4	
Second Column		55 840		696.		n 4	30 m		1000 m/s	. 48 C	Č	1,4 502	22.55.	135 88		
State Stat	Chat of chamical		13077	200			0.00	526 700	\$20,020	001.00	507 BS1	\$20°00.	9.6373	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	П	i i
State Stat						00000	0.50 PM	0.55	283	2008,000	525.50	130 F	043 ¥4			
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Column C	900-918)					73.34	2	A85 %.	27.7.4	201/5/2	\$\$\$ OP	(2) (3) (3)			ì	
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Fig. 2002 State			600 %			410 85	130,253	37	926 st.	T	**************************************		7	- () - () - () - () - () - () - () - ()	1	• ! : ``
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Anniety 25 cc. Anniety 2			S 000			5,536	Ž.	7,745	ာ က	9,522	7	7	0 (a) (b) (c)	3	10.00	,
Section Cold		26.545				20,072	10000 10000	n :		T T T T T T T T T T T T T T T T T T T		1000	597 77		1	30 30 31
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TOTAL CONTRACT CONTRA	Principal Repayment											7.52	100	17. 42.5		257.7
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100	25.47	2112	70.00	2015	0.2									
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	8	8	200	88	8	85	ŝ	85	8	888	2.400	3676) (3) (3)	2.500
<u> </u>	2,400	2,400	2,400	2,400	2,400	2,400	2.430	2.90	38		.00.	900	380	1,000
	1.000	000,1	00°;	1.000	20,	8.5	2,000	547	36	1.67	7.87	1.47	7.47	147
	1.47	A 20 X	0.050	VVV	052.9	050.0	0,050	0.050	0.050	0.050	050.0	0.050	0500	0900 0000 0000
inflation rate	260	200	2,202	2312	2.427	2.549	2.676	2.810	2.950	90°6	325	3.415	950	2 / S
Infation rate(97P)	2.119	2775	2 336	2.453	2.675	2704	2.839		3.130	3.287	3.401	3.0%	0000	0000
Tariff				100	200	35.6	3.35	1	3.58	3.63	3.68	4.05	4.05	4.05
Domestic	2.77	15	\$ 8	3 S	3 6	33.0	338	3.35	3,65	368	3.68	4.05	804	90,7
ndustrial :	277	17.7	200	2265343	2345343	2.575.877	2,579,877	r	2,837,665	2,837,865	2,837,665	3,121,651	3,121,651	3,121,651
Domestic	25.735.73 20.505.05	4. 134. 35 50. 505 50. 505	555,505	S	555,505	611,056	611,056		672,165	672,161	672.161	739,377	739 377	739,377
Industrial	7877	2 637 135		2,900,848	2,900,848	3,150,633	3 190,933	.,	3,510,026	3.510,026	3,510,026	3.861,029	3.051 023	3.00,1,000
The state of the s	1.80	1.00	1	}	 80:F	1.10	3,00	1,00	0.1	8	8	0	3	3
	000 100	407 100	427 550	448.937	471 384	494,953	519,701	545,686	572,970	601,618	631,699	963,284	696,449	731,271
Cost of energy usage	200.75.	224 147	235.349	247.117	259.473	272,446	286,069	300,372	315,391	331,160	347,718	365,104	383,359	402,527
0	174740	183057	192210	201820	211911	222507	223632	245314	257579	270458	263981	298180	313089	4/826
Cost of chemical	141.780	148,869	156,313	164,128	172,336	180,951	189,999	199 499	209,474	219,947		242,432	10.00%	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Wages, Social Securities	177,435	186,307	195,622	205,403	215,673	226.457	237,780	200 200	761,757	000000	030,603	66350	68350	08.350
ŝ	68,350	68,350	68,350	86,350	88	06,350	8 8 8 8 8 8 8	50.00	201.655	211,738	222,325	230,42	245,113	257,369
eecate()	136,488	43,313	6/4/26 6/4/26	20,002	20,00	52.259	54.872	57,616	60.497	63,521	66,698	70,032	73,534	77,217
Social insurance	40,340	44,931	. 20. 24. 52.	212,251	22.28	23,007	245,707	257,993	270,692	284,437	258,659	313,591	329,273	345,735
of Co. months with the Co.	167.740	176,127	184,933	194,180	203,889	214,083	224,787	236,027	247,828	260213	273,230	296.852	15. E.S.	87.0
S	15,611	16.391	17,211	18,071	18,975	19,924	20 20 20 20 20 20 20 20 20 20 20 20 20 2	21.986	182	18 OB4	024.07	10,000	20,935	24.582
Feel	11,6657	12,240	12,852	13,495	14.170	0 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	770.00	200	90.05	39 109	39.109	39,109	39,109	39,109
Analysis cost(P)	39,109	39,100	39, 100 34, 100	9	00 7 00 v	105.754	11.042	116,594	122,424	128,545	134,972	141,721	148,807	156.14
Analysis cost	22,800 24,800 27,900	8, 55 1, 55	000,100 000,000	8.842	6.842	8,842	8.842	8,642	8,842	8,842	8.842	8,842	6,842	28.8
Others pursounded Service (I)	18.733	19,669	20,653	21,686	22,770	23,908	26,104	26,359	27,677	29,061	30,514	32,039	33.64	25,55
W. &. S. for Administration	596,587	626,417	657,738	690,624	725,156	761,413	799 484	839,458	567,633	525,503	977,778	215,000	00996	216,600
Satanes(P)	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	276,500	7.000	747 524	784.896	824.142	865,350
Satares	458,913	481 859	200,952	007150	210,100	202,700	904.406	167.72	203 407	213.578	224256	235,469	247,243	259,605
Social insurance	137,674	20.00	00/,101	50.00	207 953	307.953	307.953	307.953	307 953	307,963	307,953	307,953	307,963	307.953
Depression	48,000	10.36	98	96 201	106.093	108,093	108,093	113,498	113,498	113,496	521.6	119,173	119,173	126.132
Nature Protection Tax	63,117	87.273	87,273	87,273	91,637	91,637	91,637	96,219	98,219	86,219	D (5)	10.10	2,00	5 5
Porperty tax	9,261	9,724	9,724	9,724	10,210	10,250	10,210	10,721	12/,01 6.889	10/71 8 558	1,23,11 8,88,5	288.4	6.886	7
Road Tax	5,665	5,949	6,949	5,945	6.246	042,00	0470	000,011	125,212	(31.473	138,046	100,949	152,196	59,806
Other G/A	84,749 1.16	8 2 2	ន្ទីង	ž Į	1,28	3 83	1.28	8	8	¥	4	1,41	, 4,	8
	9.0	076.01	10.240	076.61	19 340	19 340	19,340	19,340	19,340	19,340	19,340	19,340	19,340	19,340
Political Chape (p)	22,388	23.508	23.508	23,508	24,683	24,663	24,663	25,917	25,917	25,917	27,213	27,213	27.273	28,574
Preparing for Bad Receivables	36.03	38.	70,360	70,360	70,360	77,356	77,396	77,396	85,136	85,136	8.138	93,550	25.00	20.00 20.00 20.00 20.00
erating Coat	2,189,211	2,267,581	2,362,437	2,455,321	2,559,171	2,668,611	2,776,136	2,895,675	3 02 1 950	3. 40 A.S.	37.00	241 182	787 381	178.77
Operating Profit	47,8.3	369,554		445.027	41 677		(14.79/	22 200	27.2	461.123	25.17.2	(39 Po)	321 75	25.53
erest Payment	000 150	01810	505,128	099 041	470,780	39.070	28 109	-104 480	134,520	59.47	-25,312	236,532	152,986	59,15
EALB.T	200,730	000 OC C	12,00,13	27 494 F29	12.679.110	-12 640 040	-12.668.149	-12,772,629	-12,638,109	-12,578,638	-12,603,950	-12,367,418	-12,214,433	-12,155,278
Accounting the Profit Tex	0	0	P	0	•	٥	0	٥	0	0	0	0	0	3
Net Profit	-200,750	-250,354	-50,719	-110,669	-179,280	39,070	28,109	104 490	134,520	59.47	25,312	200,002	25,360	2 14
Cesh Flow	119,103	57,599	257,235	197,285	128,673	347,023	478,844	203.474	442,4/3	** /or	0	43.875		482.623
Changing in Working Cap.	0 0	0 000	32,964		362 606	308.867	398.867	398.867	438,753	438,753	438,753	482,629	462,629	482,629
Oriocinal Denominated	229,042	438,700	470.479	503.412	538,651	576,356	618,704	659,871	706,061	755 486	808,370	864,956	925,503	990,288

1.00 1.00	BIRCA (Option & Loan interest = 7.7	9.54	2043	2014	2015	2016	200	2018	2019	2030	202	7707	5.37.4		
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The control of the	1013	2405	00" (2.400	3.400	2.400	007.7	2.400	0 0 V	2),	20.7				
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The control of the	noustrial	505 005	200 000 201 000	SS 000	2 9.00 R48	2 00 848	3,150,533	3 :90 933	5 50 933	5,516.026	5,510,026	3,510,026	5,801,029	\$.00.008	70 (44)
State Stat	poerating Income	2,527,33	2,037	2. 1.00 L	3	3	01.0	80.	S.	61.4	50 t	3	o r	-:	
This control This		3)		•				((((0	9 4 6	**************************************	200	\$ \$100 miles	1
Strain 17,000 1,00	ost of energy usage	387,809	407,199	427.559	448,537	471 384	494 953	519 701	745 986 11 11 11 11 11 11 11 11 11 11 11 11 11	0/62/5	23.15.5		() () () () ()		
Fig. 17.000 15.00		213,469	224,142	235 349	247.117	259.473	272 445	200 000	7 10 100	000440	97046A	and care	S. 3.7		
State 147 750 145 750 75	Sa	174340	183057	192210	201820	115:16	/2220	750037	200 P. S	275.27c	275.546	250 GBB	265 655		
Statement 17 A 20 15	lost of chemical	14,780	148 859	195,313	50 50 50 C	0.6.27	900.00 \$45.00	0.87.750	599 65C	250.452	275.250	620,000	203 474		9. 10.
Second Color Seco		17.435	100,000 00,000 00,000	95.022 68.350	68.350	0,60	68.350	98.83	68.350	6H 350	58.360	6,4,350	64 355	80.4	
Street S	Salanesip)	176 488	163.313	150,478	158 002	65.902	174.197	182,507	152 053	201 555	21.738	955 1351 1351	**************************************		F. 3
State Stat	egreenser respos	40.945	42.854	45,143	427 401	45 771	52,259	27.8 47.2	913 61	00.497	15,52	10 m			•
STR 155 11 10 11 11 11 11 1		183 350	152,518	202, 144	212 251	222,654	234,007	245 707	350 130	270,832	200.000	000 cc.			. 1
Page Page		157,740	176,127	184,533	Set 42.	203 899	200 3.7	75.4.767	20 027 30 028	970 CC	24.213	874 S	131.5	Z.C.	
Control 19 19 19 19 19 19 19 1		1561	16,391	17.211	100 E	078 81	4 K M A A	15.622	603.01	17.123	780 a.	580 c.	100 E	\$2000	
Part		7597.5	36.100	50 P.	36.106	39.109	60.58	99.108	39,100	35 105	39,109	39.109	300 BB		. : Da :
Scale		99.86	87,004	9*,355	95,922	100,718	105,754	11.042	16.594	122 424	28 545	555 as	in the second	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	
Scale Scal	Orbars consciutored Service(n)	F 642	8 8 8 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	8,842	8 642	6.842	8,942	F. 042	4,50	T. 15.	5. F. 7.			4	
Salakares 156,584 165,586 165,586 165,586 165,586 166,586 16	thers outsourced Service	18,733	19,669	20,553	27,686	22 770	23,908	5 , 52	508 98	27,677	29,050	410.00	590 59 100 500 1		
Salalanes 216 500 21	7 & S for Administration	595,587	525,417	657,738	690,624	725:55	751,413	484,987	500 000 C	- 04 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	008.316 008.316	0.00	(S)		
Spalaries Spalaries <t< td=""><td>Sa</td><td>216,600</td><td>216,500</td><td>215,600</td><td>215,500</td><td>2,000</td><td>000.012 000.012</td><td>000,012</td><td>56.5 7.37</td><td>678.006</td><td>711.925</td><td>747 524</td><td>88 T</td><td>7. 2.</td><td></td></t<>	Sa	216,600	216,500	215,600	215,500	2,000	000.012 000.012	000,012	56.5 7.37	678.006	711.925	747 524	88 T	7. 2.	
Supplication Supp	Salanes	556.933	959 CP.	505,554	25. 23.	57 3 44	175 711	6.44.5	193 721	203,407	213,578	224 255	205,469	5.	
Signature Sign		340.064	000 44	207,653	307.953	307.953	307,953	307,953	367,953	507,953	307,953	307,953	307,963	25 C.V	
Secondary as 5/11/2	epriciation	450.82 450.83	102 945	102.945	102,946	108.093	108,093	*08,093	113,458	113,498	113.498	119,173	m :		
Popport at 5,961 9724 9724 9724 9724 10210 10,210 10,210 10,721 10,721 10,721 10,221 10,221 10,221 10,221 10,221 10,222		62 117	87.273	87,273	87,273	5, 637	51 637	51 637	8 219	\$ 218	0 10 10 10 10 10 10 10 10 10 10 10 10 10	01 030	083,50	3	
Road Tax 5,655 5,949 5,949 5,946 5,946 5,946 5,946 5,946 5,946 5,946 5,946 5,946 5,946 5,946 5,946 1,924 1,926 1,926 1,926 1,926 1,924	xe; Abociod	1,261	9,724	5,724	9,724	10,210	10,210	10,210	15,72	10 721	157.51	757 17	20 a u	1 (E) (E) (E) (E) (E) (E) (E) (E) (E) (E)	ĪĒ
15	Road Tax	5,665	5,949	5,949	676 S	5.246	6,245	6,245	800 S	2000	00000	9000 BT 6	9000 9000 9000 9000		1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
19,340 1	ther G/A	84.749 1.16	88. - -	93,435 1 22	58,107 1.22	103,012	108.1 85.1	1,0,0,11	3.8	3.	X	17			,
19,340 1		•			•	3	0.00	0,0	00000	0.00	C. 24.	10.000	U705.	: :	
Receivables 53,546 43,546 70,350 70,350 77,356 77,35	Jilgton Chaga(p)	19.340	19,340	19,340	0 00 00 00 00 00 00 00 00	040.9F	Use 25 cc	79,540	2 K	- C	25.917	27.233	(1) (4)		
Commonwealth Comm	uliciton Chage	22,388	8 8 8 8 8 8	0000	20,000	70.360	200 F.	25.6	77.356	65 136	36, 38	85 136	93 660	90.050	Ç
427/923 369/624 (2004) 416,527 347/677 (2012) 414,507 356,526 (35,526) 455,504 457,507 457,504	repairing for Bad Receivables	4 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 267 581	7.762.437	2 455 321	2 559 171	7,568,611	2 776 136	2 855 675	3 021 960	3 146 433	3,284,100	3.479.345	5 (47,8 95,8)	
62(5)674 615/508 505/179 505/179 520/507 400/251 442/505 555/504 505/504 504-122 201.030 14-602 200/750 250.034 507/19 110/669 179/200 281/09 150-480 174/509 175/509	persing Cost	47.573	453 626	538,410	445,527	341.671	522,324	151,434	255,258	260.052	363 593	225.526	791,162	(8)	
1058) -200,750 -250,354 -50,719 -10,669 -179,280 39,070 -28,109 -104,480 144,520 59,471 -255,312 205,537		A.A. 6.74	9 3 3 3	539 129	526,155	520,957	483,251	442,500	157,860	353,546	304,122	25:,233	256,263	50, 30	n Z
14) .12.086.067 .12.336.442 .12.336.160 .12.459.825 .12.579.110 .12.564.040 .12.5651.149 .12.772.529 .12.5751.04 .12.5776.34 .	A B.T	200,750	-250,354	-50,719	10,669	.179 280	39,070	-28,109	-106,480	134,520	59.471	25.312	235,532		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	commate Profit(loss)	.12,088,087	12,338,442	12,389,160	12 499 829	-12.679.110	-12 540 040	-12,668,149	-12 772,629	-17,538,109	909.076.21	008.500	6.00	0000	
200,750 -250,354 -50,719 -110,559 -728,250 35,010 -40,109 -10,410 42,243 35,724 282,544 544,485 45,010 51,559 287,544 544,885 45,010 51,559 287,544 544,885 45,010 51,590 51,590 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	orporate Profit Tax	0	0	0	0	0 000	0 000	O (0 000	003.304	50.471	25.312	500 CCC	19 1 Co.	Ş
Cap 119,104 57.539 207,230 197,205 20,005 20,005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	et Profit	200.750	25.00	217.00	900,UTT-	78.650	0.00 V.V.C	279 844	203.476	442.473	367.424	282.62	544,485	305 000	
329 542 329 642 352 606 362,606 362,606 398 867 398,867 488 753 438,753 438,753 429,753 429,750 410,954 439,700 470,479 503 412 538,651 576,356 616,701 659,871 706,051 755,486 808,370 854,555	ash Flow	501.911 C	980')C	25.703 25.703 25.005	007//51	000	36.263	0	0	39,887	0	0	43.875	٠,	1.00
410 904 439,700 470,479 503.412 538,651 576,356 516,701 558,871 705,051 735,403 007,370		329.642	329,642	362,606	362,606	362,506	398.867	358.867	398.867	438.753	438,753	438,753	\$50 CA\$	\$25 555 \$25 555	
	Pnoceal Repayment	410.934	439,700	470,479	503.412	538.651	576,356	616,701	659,871	705,061	(35,488	25.50	27.70		

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The second secon		£	•										4000	3	
Domestic.		1254	1,339	1,423	1,488	1,553	1,618	1,683	1,747	0.820	1,893	8	9507	- S	- 12 - 13
industrie	905	8	200	200	8	Š	Ş	8	8	8	8	3	3	3 8	
Total	1629	1,629	1,705	1,781	1,839	1,898	1,956	2015	2,072	2.138	25	2,08	7	3	
						1,032	1.031	000	000	1,032	1.031	99,	1.025 5.15	1,020	35
				100	1.13	1.17	2	1.24	1.27	1.31	3	30	2000	198	100
Inflation rate		0,061	650'0	0.050	0.050	0.050	0.00	000	9000	0000	0.050	200		300	9 6
inflation rate(98P)	90.	8	1,059	1,112	.168	525	1,287	1,352	9.4	1,490	00 f	2 5	77.		
inflation rate(97P)		1061	1.124	1,180	1,239	130	386	484	1 206	1.361	188	3,	3	3.40	
Tanti							o a	90 4		97.0	34.6	0%.6	2.70	2.70	5
Comestic					2.030	2.03	77	7.43	Q V	8 :	2 9	O F	9 6	2 6	ì
Industrial					300	203	223	27	9	047 7	4 507 456	1 078 878	2 ONG ARE	2043 878	2 250 0
Domestic				٠	102,24	150,650	20,000	107.57	272 874	448.775	448 775	493 102	493 102	493.100	542.412
industral					3/0,8/0	370477	200 YOU A	770 543.	200 K S.47	20/0/05	2.145.443	2.431.980	2,502,987	2,574,980	2,022,4
Operating Income	A STATE OF THE STATE OF	The second section of the second	and a separate for		-ANO.014/2			20.0		50	1 03	1.13	6	8	
						3:	2	3	<u>}</u>	3	3	<u>!</u>		82,9502955	
					200 000	249 852	233,449	247.865	263,033	280.242	297,830	316,488	. 335,146	357,204	369,342
Cost of energy usage		000			124.811	135 220	141.846	146,805	156,046	46.494	172,396	180,857	189,658	199,072	203
	070	3			78116	84633	91604	09066	106967	115896	125432	135630	146478	158131	32
	0.00	200	5		40	90 800	25.70	6	103 641	52,50	114.502	120,120	125,972	32.218	135.0
Cost of chemical		3	3		24.50	100,000	114 375	120,005	128 100	132,405	139,025	145,976	153,275	160,939	68
Wages, Social Geourides					65, 65	25, 85	035.88	68,350	68350	68,350	68,350	68,350	96,350	68,350	8
Ceneros (p)					200	83 703	CBQ 78	25.00	97,000	101.850	106.942	112,289	17,904	23,78	28
SPACE IN THE PARTY OF THE PARTY					200	25.136	26.36	27.714	80	30,535	32,083	33,687	35,371	37,140	8
SOCIAL INSCRIPTION					200	100	110,667	125.708	132 198	139.516	146.699	154.259	162,153	170,587	74
Parts, Maintenance		300			4.0	106.253	111460	116.928	122.618	129,136	135,467	142,114	149,037	156,427	29
	8	3			8,965	7.578	8 202	8.870	95.6	10,378	11,231	2, 45	13,116	14,159	14.
	3	2000			5,638	7.384	7,746	8,126	8,522	8,975	9,415	9,876	10,358	10,871	Ţ
Acabine cost(P)	38.546	***			29.872	30,925	31,879	32,832	25,71	34,841	35,912	36.983	38,039	39 100	R
Acatour cost					37,128	40,225	43,538	47,082	50,849	55,085	59,616	64,463	69,619	75,158	78
Others outsourcing Service(p)	6.00 6.00				6,776	6,991	7,207	7,422	7,635	7.877	8,119	9.36	000	8.842	900
Others outsourcing Service					8,394	8	9,843	20.0	25.65	25,435	0/4/5	77.4	A 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		3
W.&.S. for Administration					348,812	366,253	204,300	40,500	225,885	200	216,600	216 600	276.600	216.600	216
(M) SPCB(R)					26.50	26,000	295.420	310,611	326 141	342,448	359.571	37.549	396,427	416,248	437.
80C01007					7.5°057	2007.00	98 746	03.183	97.842	102.724	107.871	113,265	118,928	124,874	Ę
					1 035 007	1.035.007	1.035,007	1,035,007	1.035.007	1,035,007	1,036,007	1,035,007	1,035,007	628,958	415,0
Tayon					269.25	34,594	94,69k	66,929	626'08	626,639	83,375	93,375	93,375	98,04 4	3
Nature Protection Tax	71.800				2.600	71,800	71,800	75,390	75,390	75,390	79,160	79,160	9,160	3,17	ß
Pomeny tax					80.	9,000	6,000	8,400	9.400 004	8,400	9,820	6,620	8,020	192.6	on i
Road Tax	4,894				4,894	4. 89.	4,894	5,139	5,139	5,139	986.0	0 (A)	082 cl	0000	ń
OberCA	46,000				49,551	52,028	54,630	57,361	60,229	182.63	50 G	3.5	575	8	ò
					8	8	8	8.6	8	60.1	2.	2	2	. e	-
					44.822	45.303	15.764	16.236	16.700	17.229	17.759	18.288	18,811	19.340	18
Pullubon Chape(p)					14.822	15.293	15.764	17.046	17,535	60.85	19,579	20,163	20,739	22,388	ä
Curtous Craye Despendent for Back Receive New					81.4	34,521	39,562	41,152	45,988	48,952	50,915	58, 58 58	60,297	52.458	88
Chemital Cost					2 123,071	2,176,921	2,237,047	2,301,732	2,386,509	2,437,229	2,513,285	2,593,004	2,671,243	2,353,615	5 5 7
Operating Profit	2				-650,063	465,751	-510,782	522,489	-353,462	-367,234	357,842	-161,024	-168256	27,165	673.5
Interest Payment					968,574	868,574	866,574	958,574	868,574	968,574	968,574	968,574	805,574	466,574	475.57
E.A.19.T					1,518,636	-1,524,324	-1,379,356	1,391,062	222,536	1,225,808	-1,236,416	766,620,1	1,036,630	204.740	0
Accumurate Profit(loss)					-1,518,636	3,942,960	4,422,316	-5,813,378	-7,035,914	-8,261,722	9,498,138	-10,527,735	COC, #3C, FT-	4/8,117,21-	000
Corporate Profit Tax					0	٥	0 000	0 00	0 1000	o and acc	. me 418	100000	o Care Pro	647.400	0.245.0
Net Profit					0.016,636	475,475	000,000	700,160,1	7,444,00	20,00	007.702	007.5		18.441	170.0
Cash Flow					20,000 20,000	168 168 168 168 168 168 168 168 168 168	76.677	-200,025 6,673	207,328	18,60	8 181	35.817	8.876	6883	32
Changing in Woming Cap.					184,126	190,146	215.783	222,405	251,818	259,999	268,180	303,998	312,873	321,872	35.080
Principal Receipton					•	•		c	a	C	0	•	•	•	e.
					•	>									

Protect Vear	1961	1990	1999	882	2003	2002	2003	2004	2005	2006	2002	2008	2002	200	
Sissello		455.	1,338	1,423	484	ଅନୁକୃ'ଧ	1,518	1,563	141	1,620	23.00	4 4 1	2.050		•
1000 State	500	200	\$00	\$00°	500	ည်	Š	003	င်	8	8	20.1	300		
[0.9]	1 629	1.629	1,705	1,781	1,835	1 858	936	2015	2.072	2.138	15 15 15 15 15 15 15 15 15 15 15 15 15 1	D		. 4.	
						1 032	1.00.1	080	300 ·	786 -	(SO)	A800 .	3		
				66	-	11/	0,1	4/-	0370	5300	000	900	0,415	0.632	
manon rate		1900	5000	200	0000	0000 0000	200	000	2 2 2	8 8	1,565	583	35.	1	
Inflation rate(98P)	8	8 8	500	2111	250	1301	507	436	, S	1.581	188 ·	40	1 430	0.00	
Inhation rate(97P)		Š													
- grant					2,030	2 03	2.23	2.25	54.2	947	2.46		275		•
) (C. C. C. C. C. C. C. C. C. C. C. C. C.				ļ	0007	2 03	2.23	273	2.46	2 45	2.26	2.70		- 1	
Olympia.		-			1:02,534	1,150,685	1,518,743	1,371,721	1,555,272	1,531,720	697,168	2 934 57 B	2 COL 65.5	\$ 1 S	
je objectivali					370,475	370 475	407 523	407 523	448.275	448275	446,775	463 02	201 102		i
Operating income					1,473,009	1,521,176	1,726,265	1,776,243	2,014,547	2,079,995	2,145,443	2,431,960	2,502,567	2,574,930	
						1 93	e.	20.	51.1	03	3	÷,	3	2 Table 200 At 200	
				-	200 000	216 853	233 649	247 965	263 033	280 242	297 830	515 468	335 345	2007.00	A No
Cost of energy usage		000 000			124.813	135,230	141.845	148 605	28.85	44,00	950 C.	728,04	1.05 GA.	14 15 15 15 15 15 15 15 15 15 15 15 15 15	
30	55.840	3			78115	64533	9.604	09066	135967	115858	125432	08998.	144,426	in S	*
	•	71,000	71 000		82,856	69,608	94,210	98,832	158 641	.09 153	205 711	20 120	258,825	£ .	•
Western State Securities					103,742	168,930	14,376	120.095	36,166	-32 405	139,025	369,341	52.255	7 C	
Salanes(b)					68,350	68,350	68 350	58,355	58 350	58,350	3	30.60	ु : (१)	A i	· ·
Salanes					208-52	63 792	67,582	52.38	97,000	048	8	592 544			
Socal Insurance					23,941	25,136	26,394	27.734	8	30 555	60 CCC	33.537		4	
Parts Maintenance					105 069	113,831	119,662	125.798	85.45.	339,535 335,438	145 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			i e	
gis.	;	25 26 26 26 26 26 26 26 26 26 26 26 26 26			4 (0.00)	20.00 10.00	0.000	078 G. L	010,33	10.178	200	4			
Ŷ	2000	500			S S S	1 334	7.746	 		5.00 0.00	0.45	3.875.E	60.0	ij Y	:
Calculate and the calculate of the calcu	06.540	3			75.572	30.925	3.8.6	32,632	55 27	F & 2.	35.912	CHB 95	65 PS	80 B	7
Section 1	3				37.28	40 225	43,538	47,082	50,849	55,085	69.616	54,453	66.00	\$ 1 8 1	
Others outsourding Service(p)	5,000				6776	\$ 90°	7,207	7,422	7,535	7,877	3 (E	(Sec.)	000	y .	
Omers outsouroing Service					A 364	450 6	0.000 P	40,044	£	50.2	13,475	0 4 6 6 4 6 4 6 4 6 4 6 4 6 4 6 6 4 6	00 / OT	100	
					348 812	396,253	226.000	405.75 500.000	2007	348.600	038.50	218 600	306.817	10000	
(A) Sacrato					0.000	281 233	28.5.820	3000	2 d	342 448	359.571	373 575	2.74	17	Ş
SECORTO					400.00 40.40 40.40 40.40	50.50	86.746 86.746	53.463	C1/4 7-	197	178,50.	113 265	4.56 G.	4. × 8.0.	•
ADVENDED INDOC					700 500	200 800 3	1 035 007	1 035,007	1,035,007	1 035 007	1 035 007	1,035,007	1,005,007	1	: :-
Control of the contro					FK 654	453.48 453.48	84,694	86,929	68,939	46.929	93,275	95.375	\$1.00 UE	į,	s,
Nature Protection Tax	7.500				21.800	71.900	71,896	056,87	S. 35	<u>8</u>	93 S	381.45	3 ;		
Sorberty (ax					88	8 8	98 98 98	30 4 E	£69	60	0 : 20 : 20 :	O CO			
Kat had.	4.894				4.854	4.854	4	on or	60.5	9 6 6 7	380 m		\$ 2 0 1		
Diher G/A	40 000				40 553	52 028	54 530	. P. 15	52.5 GG	63.24	56.403	87 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
					9	8	8	3	5	00-		3		. 1	
ě					4,	1005	15.764	300	002.51	97.229	647	4.47 A.	r.	1	
Pullution Chadeter					4.	58654	12/25	ν. 	7.535	18 091	5/2 5.	59 - 52	P)	::	:
Publish Unage Dangaran Ar Rad Kecamanian					8. 44	9 52 4 52 52 1	36.55	C4. 1.7	886 37	44.652	50,915	S F	200	4.7	:
Described for:					170 001 0	2 175 921	7337 047	2,300,732	2368 669	2437 229	25.3285	1, 193, 304	2.677.743		
erating Profit					450,083	455,751	-510,782	-572.489	-363 962	-357,234	-357,542	-161,024	- 10.250	300 300	
injerest Playment					PCP.574	968,574	550,574	#/G'000	475,80 0	608,574	926,956	576	575,574	T.	
14.41					9099.0	-1 524 324	.1,379,356	391,062	222,536	225.508	3.4.98.3	366.620	3		
Accumulate Provinces)					929.676	0,942,950	4,422,515	8 S S S	4 C	20,122	86.48 86.48	58 - 670 DE-	1		
Corporate Provir Sax					0 0	0 000	930000	0.00	363 666 .	904,356.77	31.2.350.1.	F03 000 *.	1 1 2 1 1		
Net Profit						440 440 C	000 B/5 L-	200 G	000 444	2.2.5 HC0	30 m	9095 5095		j	. "
Ser Town					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 80 F	56887	6,623	1 m	- A	0.	1.000	n' n	:	
Changing in Working Cas					12. E.	190.45	215,783	202 405	80.8 . S.C.	5-6-606	268 (80	303 345	200	:	i.
Principal Repayment					6	Ċ	c	C	0	c	0	C-	O		
						>	,								

Project Year	2012	2013	ľ	2015	201E	Ř	818	2012	200			2.11	2.111	2.13
Compatito	2,111	2,111		2,111	2,111	2,11	2,111	LL 2		. Ş	9	200	8	8
Production:	8	200		Ş	200	8	38	38	1	8	260	2.400	2,600	8
Total	2,400	2,400		2,400	2,400	2,400	7400	3	İ			000	2000	8
	1.000	8.		1,000	8	8 ;	8	2.		3.5		. 67	1 47	7
	1.47	1 47		1.47	147	\$ 200	2000	0,00	0500	0,050	050.0	090'0	0.050	0,050
Inflation rate	0,050	0000		000	0000	2000	25.50	2.810		980 8	3,253	3.415	3,586	3.76
Inflation rate(98P)	796	2.007		2.0.7	2 575	707	2.839	2.981		3 207	3.451	3 624	3,805	7.00
Inflation (ate(97P)	811.2	5777	GCC.7	200	,				ı				100	
lant	47%	7.0.4	İ	3.27	3,27	3.60	3.60	3.60	3.	8	8	3	Ç,	9
Domestic	100	2 0 4		3.77	3.27	3.60	3.60	3.60	8	38	38	43	8	200
Industrial	2 340 065	2 25/0 085	ľ	2,519,072	2,519,072	2,770,979	2,770,979	2,770,979	3,048,077	3,048,077	3,046,077	3,352,865	3,332,865	704.00
	542,412	542,412		598,654	596.654	956,319	656 319	656 319	177 951	60 C.J. C	4 TO 109	4 147 001	47 001	4.47.03
Consenting Income	2 832,478	2,832,478	ľ	3,115,726	3 1 5 / 8	3,427,298	347770	3,427,000	3,77,000	001	87.75	1.10	8	9.
	3.00	1.00		8	3.0	0.70	3	3	2	<u> </u>	3	2	:	
Cont. of annual contracts	367,809	407.199	427,559	448,937	471,364	494,953	519,701	545,686	572,970	601,618	631 699	663,284	986 449	73127
	213,469	224,142	235,349	247,117	259,473	272,446	286,059	300,372	190,616	221,155	283981	2000	313089	32874
8		183057	192210	201820	211911	222507	20000	100,400	200 474	219.947	25 SE	242.492	254,617	767
Cost of chemical	141,780	148,869	156,313	164,128	172,333	226.457	237.780	249,669	262 152	275,260	289,023	303 474	318,647	33
	05,477	786,347 045,844	68.350	050	66.350	68,350	69,350	68,250	08,350	69,350	68,350	88.350	68,350	99
(d)spunso/		143,313	150,478	158,002	165,902	174,197	182,907	192,053	201,655	27.73	22,33	85 t	26.113	9.5
Social Insurance		42,994	45,143	47,401	49,774	52,259	2,92	57.516	194,000 100 07.00	284 437	228.659	313.50	320 22	7.54
Parts, Meintenance		192,518	202,144	212,251		200.00	707.00	7.6 027	247,828	260.219	27.20	205 892	301,237	316.2
SIP	•	176,127	184,933	200	48 076	19 924	20.920	21,966	33,064	24217	25,428	28.78	28,034	Ž,
		- 470 C+	12.85	13.495	14.170	14,878	15,622	16,403	17,223	13,084	18,969	19,938	20,935	2 1
	36.109	30,100	39,109	39,109	39,109	39,109	39.109	601,60	39,100	39,109	39,100	39 109	39 108	2 4
Analysis Odd		400,78	91,355	35,922	100,718	487.85	11.042	16,594	72,424	26,040	CYTE	(34 g	98	40
Others outsouncing Service(b)		6,842	9,942	3,842	8,842	8,842 23,942	26.042	26.25	27.677	88	30,514	32,039	20.23	H 33
Others outsourcing Service	18,733	19,669	20,053	000,17	27,7,7	761.413	799.484	839,458	881,431	925,503	977,778	1,020,367	1,071,385	124
W. J. S. for Administration		216.600	216,000	216.600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216,600	216.6
(F) September (F)		481 850	505.952	531,250	557,812	585,703	614,988	645,737	678,024	711 925	747,521	784.980	824,142	200 200 300 300 300 300 300 300 300 300
		144,558	151,786	159,375	167,344	175,711	164,496	193,721	203,407	213,578	22428	235,469	247,243	6 6
		307,953	307,953	307,953	307,963	307,953	307,953	307.953	307.95	307,903	6,70	0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	11017	8
Taxes	\$8,044	102,946	102,946	102,946	100,000	108,083	106,093	113,496	96.5	06.210	000 101	101.030	90.00	8
Nature Pr		87,273	87,273	67,273	20.00	0.000	25,05	10.70	10.723	10.72	11,257	11,257	11,257	11,8
Porperty tax		9724	4 0	97/6	6246	6.246	6,246	653.9	6,558	6,558	6,886	6,686	6,886	4
Mai 0407	A 749	986	93,435	50,107	103,012	106,163	113,571	119,250	125,212	131.47	138,046	44 949	152.158 186.1	6
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12.	Supporting Report for the Environmental Impact Assessment

Supporting Report (Birzai) Environmental Impact Assessment

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1 INTRODUCTION

1.1 OBJECTIVE OF THE EIA STUDY

An "environmental impact" means a probable change in environment caused by proposed activities and structures. "Environmental impact assessment (EIA) " means the process of identification, prediction, and assessment of potential impact by the proposed activities and structures on the environment.

Objective of an EIA is to assess anticipated environmental impacts, which may result from implementation of the proposed sewerage project, and to prepare recommendations on necessary countermeasures to mitigate identified impacts.

Another objective is to provide the study results of an EIA to the Lithuanian proponent sides to take necessary procedures for an official approval on the EIA according to the Lithuanian law.

1.2 APPROACH AND METHODOLOGY

The general sequence of steps adopted in conducting an EIA is as follows:

- Step 1: Understanding the project features
- Step 2: Study the environmental laws, regulations and guidelines
- Step 3: Collection and review of the existing reports and data on the environment (Including the preliminary EIA by the JICA preliminary mission.)
- Step 4: Survey of various environmental conditions in the project areas

 (Such as major pollution sources, waste disposal, proposed sites, rivers & lakes, existing facilities, etc.)
- Step 5: Identification of environmental impacts
- Step 6: Supplementary/additional investigation on the identified impacts
- Step 7: Study and evaluation of environmental impact assessment
- Step 8: Study of mitigation measures
- Step 9: Recommendation on environmental management

1.3 DATA COLLECTION

The JICA Team carried out data collection in Lithuania generally in the following manners:

- (A) Field reconnaissance in and around the project areas
 - (a) Birzai town and the surrounding area
 - (b) Skuodas town and the surrounding area

Note: Excluding the territory of Latvia, although the project in Skuodas includes an international issue for the Bartuva River.

(B) Visit to the environmentally critical or significant areas/locations

- (a) Existing sewage treatment plants (STP)
- (b) Proposed STP sites (including alternative sites)
- (c) Rivers and lakes/reservoirs in the project areas

(Especially the proposed alternative effluent discharge locations.)

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(d) Major pollution sources

(Such as major factories and hospitals)

(c) Waste disposal site

(Solid waste and liquid/sludge waste)

- (f) Protected areas
- (C) Visit to the offices concerned (Major offices are listed below:)
 - (a) Ministries of Environment
 - Environmental Impact Assessment Division
 - Geological Survey
 - Joint Research Center
 - Fish Resources Department
 - Water Division
 - Department of Forest and Protected Territories
 - Department of Biodiversity
 - Hydrometeorological service
 - (b) Birzai Vandenys
 - (c) Skuodas Vandenys
 - (d) Municipality office of Birzai
 - (e) Municipality office of Skuodas
 - (f) Others (Central hospital of Skuodas, Human Health Center in Birzai, etc.)

The data collection was made through observation, measurement, and discussion with people (or staff) at respective location (or office). A checklist (or questionnaire) was used for the data collection during the field activities.

1.4 THE PROJECT

The detailed plan and design is presented in the main report. The salient features of the project facilities and works are presented as follows:

- (1) Project in Birzai
 - Design year: 2010
 - Planned service area: Inside the urban area (1,783 ha)
 - Population served: 11,720 (in 2010)
 - Amount of sewage (2010): Daily average 4,200 m³

Daily maximum 5,000 m³ (Design flow) Hourly maximum 6,850 m³

- Proposed STP site: The site proposed for the original plant located approximately 2 km southwest from the town area.
- Area of the STP: Approximately 3 ha
- Sewago treatment plant: Anaerobic-anoxic-aeration(A2O) system
- Sewer system: Existing system is used.
- Discharge location of the treated effluent: Option 1; Juodupe river, a tributary of Tatula river, Option 2; Obelaukias River
- Treatment of sludge: Gravity thickening and mechanical dewatering using a centrifuge
- Disposal of dewatered sludge: 4.6 m³/day, Transported outside for composting treatment
- Use of the existing plant: Abandoned after completion of the project
- Tertiary treatment: Biological membrane filter for the secondary effluent (Option 2 only).

(2) Project in Skuodas

- Design year : 2010
- Planned service area: Inside the urban area (596 ha)
- Population served: 8,340 (in 2010)
- Amount of sewage (2010): Daily average 1,270 m³
 Daily maximum 1,600 m³ (Design flow)
 Hourly maximum 3,200 m³
- New STP site: The originally proposed site located at approximately 200 m west from the town area, called Kanyzelis district.
- Area of the STP: 1.8 ha
- Sewage treatment plant : Oxidation ditch method
- Sewer system: Existing system is used.
- Discharge location of the treated effluent: Bartuva river
- Treatment of sludge: Gravity thickening and mechanical dewatering using a centrifuge
- Disposal of dewatered sludge: 3.0 m³/day, Mounting composting method and stored for agricultural use
- Use of the existing two plants: Abandoned after the completion of project

1.5 ORGANIZATIONS/AGENCIES RELATED TO ENVIRONMENT IN LITHUANIA

The major organizations/agencies concerned for the environmental study are listed as follows:

- a) Ministry of Environmental (Former Ministry of Environmental Protection)
- b) Ministry of Health Protection
- c) Fire Protection Department of the Ministry of Domestic Affairs
- d) Regional government offices
- e) Municipal government offices []Birzai and Skuodas[]

The Ministry of Environment (MOE) is the main and most significant organization for the environmental protection in Lithuania. The organization of the ministry was strengthened in 1998.

That is, the ministry was united with the former Ministry of Construction. Name of the ministry was changed from the Ministry of Environmental Protection (MEP).

1.6 ENVIRONMENTAL LAWS AND REGULATIONS IN LITHUANIA

The Lithuanian laws and regulations related to environmental protection are listed as follows:

- a) Law on Environment Protection (1991, as revised in 1996)
- b) Law on Environmental Impact Assessment (August 1996)
- c) Government Resolution No.456 of 12 May 1997 concerning the approval of the list of proposed activities and projects that shall be made subject to the full environmental impact assessment.

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- d) Government Resolution No. 1305 of 11 November 1996 on the approval of the order of informing the public about the proposed activity and implementing the proposals of the public.
- e) Government Resolution No. 233 of 17 March 1997 concerning the approval of the list of proposed activities and projects that shall be made subject to the state expertise of environmental impact assessment.
- f) Government Resolution No. 1079 of 18 September 1996 on the approval of regulations regarding public hearings on the territorial planning documentation projects.
- g) Republic Building Norms RSN 153-93
- h) The Building Law
- i) The Water Law(October 1997)
- i) Law on Taxes on State Owned Natural Resources
- k) Law on Taxes on Environmental Pollution
- 1) Law on Drinking Water (draft)
- m) Law on Territorial Planning
- n) Law on Reclamation
- o) Land Law
- p) Environmental Monitoring Law (draft?)
- q) Law on Protection of Marine Environment (draft?)
- r) Code on the Internal Water Transport
- s) Code on the Violation of Administrative Right
- t) Guidelines on the Establishment of Water Bodies Protection Zone
- u) Conditions of the Use of Special Land and Forest
- v) Regulations of drawing up a Program and Report on Comprehensive Evaluation of Impact of Planned Business Activity on the Environment (March 1998)

- w) Resolution No. 1486 of December 29, 1997 concerning Establishment of New Reservations and Approval of Reservations List
- x) Order of the Ministry of Environmental Protection No. 127 of 24 July 1997 concerning Environment Protection Standard Document "Waste Water Pollution Standards" (LAND 10-96)
- y) Regulation for Issue of Permission for Use of Natural Resources and setting of Standards concerning Limits of Use of Natural Resources and Discharge of pollutants into the Environment.

"Law on Environment Protection of the Republic of Lithuania" was legislated in 1991. Amendment and supplement of the law was prepared in 1996. The law aims at the following matters:

- To regulate public relations in the environmental protection field,
- To define the main rights and duties of legal persons,
- To preserve biological diversity characteristics to Lithuania, ecological systems and landscape.
- To ensure healthy and clean environment, and
- To assure rational use of natural resources in Lithuania, including its territorial waters, continental shelf and economic zone.

"Law on Environmental Impact Assessment of the Republic of Lithuania" adopted on August 15, 1996 aims to provide regulations for the evaluation of a proposed activity which may cause negative impact on the environment and also to regulate relationships between parties involved in the process.

Beside the laws, "Lithuania's Environmental Protection Program" was established in 1995. This program was prepared by the MEP and officially approved by the Lithuanian Republic Parliament in 1996, consisting of the following three volumes:

- Vol. 1 Strategy motivation, which contains the present environmental status assessment, national economy sector's review, environmental change trends' forecast, and a description of the institutional, legal and economic system in the environment sector
- Vol. 2 Strategy methodology, which formulates the strategy concept based upon environmental status analysis, presents the techniques selected for the assessment of environmental problems, their urgency and implications, outlines priority goals.
- Vol. 3 Action Program which presents the long-term strategy and short and mediumterm action program in relation to environmental components. It also includes strategy implementation means, environmental protection funding aspects, etc.

1.7 EIA PROCEDURES AND OBJECTIVE CATEGORIES IN LITHUANIA

1.7.1 EIA Procedure

The BIA procedure is explained in the law on BIA. An BIA is carried out generally in the following procedure:

- (a) Initial EIA to be conducted in the process of preparation of documents on territorial planning and project proposals.
 - To be prepared by the proponent;
 - To be included in the territorial planning as well as the project proposal for the decision of the relevant parties of EIA;

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- To be presented to the public for their comments.
- (b) Full EIA to be conducted in the preparation of technical proposals for the proposed activities and objects included in the list prepared by the MEP and adopted by the government, and also for a proposed activity recommended in the initial EIA.
- (c) Full EIA program is to be prepared by the proponent in accordance with special regulations issued and approved by the MEP.
 - To be submitted to the relevant parties of the EIA for approval and presented to the public.
 - To be submitted to the MEP for ratification taking into account the public comments.

(d) EIA report is to be prepared under the EIA program

- To be submitted to the relevant parties which check whether the full EIA report meets requirements of the adopted program within one month, and forward the conclusions to the proponent.
- To be submitted to the MEP, together with conclusions issued by other relevant parties of the EIA, with analysis of public comments.

(e) MEP examines the EIA report.

- To be examined in consideration of the conclusions issued by other institutions that have also examined the report.
- To forward its decision and reasons to the proponent in a written form within one month.
- (f) MEP shall make a decision concerning the proposed activities for which the State Expertise on the EIA is mandatory only if the State Expertise procedure has been performed. The State Expertise of the EIA is obligatory for the proposed activities and objects included into the list, which is prepared by the MEP and adopted by the Government. Only licensed EIA experts organized by the MEP may perform State Expertise.

Note: The MEP is the former body of the MOE.

1.7.2 Objective Categories of EIA

The list of proposed activities and projects that shall be made subject to a full environmental impact assessment is approved in the resolution No.456 of May 12 1997 as follows:

To approve the list (To be attached in the data book) of the categories of proposed activities and projects that shall be made subject to a full EIA.

A) To set that:

- The proposed activities or projects listed in the aforementioned list shall be made subject to a full EIA if at least one of the following criteria are met:
 - (a) Production capacities or other indices match the value defined in the list;
 - (b) The volume of water consumed exceeds 250 cubic meters per 24 hours;
 - (c) The volume of waste water or sewage exceeding 100 cubic meters per 24 hour;
 - (d) The annual volume of emissions into the atmosphere exceeds 50 tons;
 - (e) During the production process, emissions belonging to the 1 and 11 risk categories are emitted into the atmosphere; and
 - (f) The annual volume of hazardous waste produced exceeds 5 tons
- The environmental study on construction shall be prepared according to the Republican Construction Standards and coordinated according to the established order, for the categories of proposed activities and projects that are not subject to a full EIA pursuant to paragraphs above yet do have negative effects on the environment or use natural resources, as well as for the constructions planned to be erected on the territories of national parks and nature reserves,

An EIA is to be prepared in line with the EIA laws, regulations and guidelines of Lithuania and based on the results of survey. According to the law explained above, the proposed projects for Birzai and Skuodas are definitely categorized as projects subject to a full EIA, as the project facilities will discharge sewage exceeding 100 cubic meters per 24 hours.

1.8 INTERNATIONAL CONVENTIONS ON ENVIRONMENTAL PROTECTION

Although Lithuania has not ratified all international conventions aimed at the protection of environment, it has ratified the following:

- (a) Convention on Biodiversity (1995)
- (b) European Convention on Wildlife protection (Bern Convention, 1996) Lithuania has acceded (already signed but not ratified yet) the following:
- (a) Convention on the Protection of Wetlands of International Importance Particularly Waterfowl (Ramsar Convention, 1993)

- (b) Convention on Fisheries and the Protection of Fish Resources in the Baltic Sea and Protection Belts (1992)
- (c) Baltic Sea Marine Environment Protection Convention (HELCOM, 1974)



The Ministry of Environmental Protection (now changed to the Ministry of Environment) has signed cooperation agreements in environmental protection, and biodiversity conservation with the following:

- (a) Environmental Protection and Energy Ministry of Denmark (1991)
- (b) Environmental Protection Natural Resources and Forestry Ministry of Poland (1992)
- (c) Environmental Protection Ministry of Finland (1992)
- (d) Environmental Protection Ministry of Germany (1993)
- (e) Federal Ministry for the Environment, Youth and Family of Austria (1994)
- (f) Nature Resources and Environmental Protection Ministry of Belourussia (1995)
- (g) Environmental Ministry of Slovak Republic (1996)

The Government of Lithuania has signed cooperation agreements in environmental protection, and biodiversity conservation with the following:

- (a) Bilateral agreement with Sweden for cooperation in environmental protection with Sweden (1992)
- (b) Tritateral agreement for cooperation in environmental protection with Estonia and Latvia (1995)

2 ENVIRONMENTAL BASELINE CONDITIONS

2.1 LOCATION AND AREA

The Municipality of Birzai is located facing the northern border with Latvia and approximately 200km away from Vilnius in a north-northwest direction. The municipality belongs to the Panevėžys Region, which consists of five municipalities. The Birzai town is the capital of the municipality and located almost in the center of the municipality area.

The study area for the BIA is the area of Birzai town and the surrounding area. The study area is located in the territory of the municipality of Birzai, except for those rivers, which flow into or out of the municipality, or to Latvia. In case of water pollution in rivers, the areas upstream and downstream of the project area have to be covered in the investigation.

The area of the municipality and the town is as follows:

- Municipality of Birzai: 147.625 km² in area (2.26% of the country area)

- Town (District) of Birzai: 17.83 km² in area

- Lithuania (Country): 65,301 km² in area

1.2 CLIMATE

Records of monthly mean air-temperature, summary of long-term records of temperature, monthly precipitation, summary of long-term records of precipitation, and monthly mean humidity are shown in the following tables:

Monthly Mean Temperature (Birzai)

Unit: ℃

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1994	-0.7		a0-	81		139		173	133	5.4	1.1	-1.1	6.5
1995	-3.6	12	18	65	11.6	179	175	172	120	8.4	-12	-3.7	71
1996	-7.7	-9.4	-3.7	65	11.7	142	14.7	180	98	60	4.0	-62	4.8
Mean	-40	-6D	-08	70	112	153	17 <i>A</i>	175	11.7	6.6	13	-3.7	61

Summary of Long-term Records of Temperature (Birzai)

Unit: ℃

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maxinum	8.4	130	188	261	30.7	33.3	33.7	33.3	28.9	22.7	162	10.5
Minimum	-35.1	-35.5	-295	-16.7	-41	0.1	3.5	0.4	-53	-108	-20A	-31 A
Mean	-5.7	-52	-12	5.5	12.1	15.7	16.7	159	114	6.7	1.5	-32

Records: 1925-1944 and 1947-1990)

Monthly Precipitation (Birzai)

Unit: mm

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1994	51	24	61	67	55	59	2	41	81	46	83	57	627
1995	53	49	71	44	69	76	34	37	66	57	29	28	613
1996	18	42	8	11	98	18	58	21	34	73	111	92	584
Mean	41	38	47	41	74	51	31	33	60	59	74	59	608

Summary of Long-term Records of Precipitation (Birzai)

Unit: mm/month

<u> </u>	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maxinum	80	69	87	102	150	197	183	220	157	136	135	90
Minimum	9	6	4	6	14	21	25	15	0	4	8	9
Mean	32	24	34	40	52	58	77	71	64	55	52	46

Records: 1924-1990 excluding some years)

Monthly Humidity (Birzai)

Unit: %

		Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aua	Sen	0ct	Nov	Dec	AnnualMean	
1		3	3	12 (11	11121	uy	Otal	944	ű	2	נ ל	110	1	riin toori oo	
	M ean	84	82	79	74	69	72	77	79	83	85	88	87	80	

(Note: 1961-1990 records)

The climate in the study area is characterized as follows:

- Temperatures from April to October are generally moderate.
- Temperatures from November to March are low. They go below zero from December to March.
- Long term records of temperature show that there are large differences between the maximum and the mean as well as between the minimum and the mean. Temperatures higher than 33°C have been recorded in June, July and August while temperatures lower than 30°C have been recorded in December, January and February.
- Annual average precipitation is nearly 600 mm, which is relatively small.

- Long-term records of precipitation show that there is no remarkable difference in a year, although there are some variations by year or by month. The maximum annual precipitation is 921 mm, the minimum 434 mm, and the mean 605 mm in the records of 1924 1990. The maximum monthly precipitation is 220 mm.
- There is no definite rainy season. Variation in monthly rainfall is not remarkable all the year round.
- There is no considerable variation in monthly humidity, although the humidity in winter is higher than that in summer. Monthly mean humidity ranges from 69 % to 88 %.
- The prevailing wind direction in Birzai is recorded as follows:

Summer season: West or Southwest

Winter season: South, Southwest, or Southeast

1.3 TOPOGRAPHY AND GEOLOGY

The municipality of Birzai gently descends from the southern-east side with the highest level of El. 88m to the northern-west side with the lowest level of El. 21m. The topography is generally flat but with some undulations.

The north-eastern region (Birzai, Panevėžys and Pasvalys districts) of Lithuania is characterized by karst-forms, mostly covered by silt or peat deposits. The territory where subsurface geological section is composed of soluble rocks, such as limestone, dolomite and gypsum, is called a karstic region. The Birzai municipality is mostly located on the gypsum karst terrain with vulnerable geological environment and contains a dense network of sinkholes, land-subsidence and karst lakes.

The Karst area generally has high permeability and unstable layers. The polluted water can be transported widely through the underground water of Karst-forms, and cause groundwater contamination. It also causes subsidence and failures in construction as well as affecting the landscape and limiting the intensive use of land.

1.4 RIVERS AND LAKES

The major rivers for the study are listed, in order, from east to west as follows:

(a) Roveja River

The river, with a length of 38.1 km and a catchment area of 190.8 km², runs from southeast to northwest and join the Apascia River at the northern side of the Sirverios Lake.

(b) Apascia River

This river has a total length of 90.7 km and a catchment area of 894.1 km². The river runs from east to west, turns to the north, and enters the Sirverios Lake after running through the town area. The Apascia River further flows north from the outlet of the

lake and joins the Lielupe River, one of the most representative rivers in Latvia finally flowing into Riga bay through the city of Riga.

(c) Agluona River

The river, with a length of 21.1 km and a catchment area of 82.9 km², runs from south to north through the town and joins the Sirverios Lake.

(d) Juodupe River

The river, with a length of 24.2 km and a catchment area of 68.5 km², runs from the south towards the north on the southwest side of the town, turns to the north on the way, and join the Tatula River. The river is small in scale and is better to be called a stream or a rivulet. It is, however, significant for the project, as the existing sewage treatment plant discharges effluent into the Juodupe River through a drainage canal and culvert.

(e) Tatula River

The river, with a length of 64.7 km and a catchment area of 453.4 km², runs from south to north, turns west on the way, and joins the Musa River, after collecting tributaries, including the Juodupe River. The Musa River is a major tributary of the Lielupe River that flows into Riga bay through the city of Riga.

(f) Sirvenos Lake

There are 15 lakes and 32 man-made reservoirs in the Municipality of Birzai. However, most of them are small in area. Sirvenos lake, actually a man-made reservoir, is the biggest and located in the project area. The lake is often called "Birzai Lake", as Birzai town is located along the south side of the lake. The lake has a surface area of 332.3 ha. Both the Apascia and Agluona Rivers run into the lake from the south while the Apascia River runs out of the lake towards the north.

The municipality of Birzai is tocated near the international border with Latvia. The rivers running through the municipality flow into the Latvia territory and finally to the Baltic Sea (Riga bay). Accordingly, attention should be paid also to impacts on the next country as well as on the Baltic sea.

1.5 ECOLOGY

According to the bio-geographical regions of Lithuania, the study area is located in the "Ziemgala Lowland Unit", which is characterized by broad-leaved spruce forest and broad-leaved forest and dry meadows on loamy plains of agrarian landscapes, abounding in carbonates. In addition, the municipality is located in a significant area for biological diversity conservation by the MOE.

The Lithuanian Red Data Book prepared in 1992 includes 501 species, consisting of 210 plants, 210 animals and 81 fungi. These species are grouped into six categories according to their rarity. There is, however, no specific survey data for the ecology in the Birzai area. No survey has been carried out in Birzai on the location of habitats and the number of significant species, except for fishes.

According to an interview with officials concerned, there are no endangered fauna and flora living in the Birzai area. They stated that there are beavers and otters living in, and along, the rivers, but they are not protected as they cause damages to forest trees and agricultural products. In addition, they indicated the importance of keeping the river water clean so that the number and species of fish may increase. For example, crayfish can live only in clean water, therefore these can be a kind of barometer of water quality.

According to the survey (1994) of rivers and lakes by the Fish Resources Department of the MOE, the amphibian mammals are living in the following rivers:

(a) Otter:

Agluona, Apascia, Tatula

(b) Beaver:

Agluona

(c) Mink:

Tatula

According to the survey on rivers and takes by the Fish Resources Department of the MOE, information concerning the types of fish fauna in rivers in the municipality of Birzai is as follows:

- (a) Twenty four fish species live in the rivers and 22 species are of local origin.
- (b) There is no typical rheophilous salmon fish species.
- (c) Average biomass of fish in the rivulets may vary from 20 to 50 kg/ha, fish density-from 1,500 to 2,000 specimen/ha.
- (d) In the medium and large rivers such as the Apascia and Tatula, the dominant species are roach, chub, perch, pike, bleak, gudgeon, torrent bleak. Fish biomass in rivers of this type (medium size, warm water) may vary from 40 to 100 kg/ha. Average density of fish in such rivers may vary from 2,000 to 3,000 specimen/ha.

There are many migrating birds stopping over in Lithuania, including the Birzai territory. There are 321 bird species recorded in Lithuania, of which 213 breed or have bred in Lithuania. Of 213 bird species, 53 show decreasing populations. Wetland drainage has had a drastic impact in the past. The changes in habitat have reduced the number of birds nesting in shrub thickets and meadows by 90 percent, and in shrub and forest by 70 and 40 percent, respectively. The modifications to ecosystems due to economic activities have also had an adverse impact on the migration routes and wintering sites of migrating birds.

1.6 LAND USE AND LAND OWNERSHIP

The land use condition in the municipality of Birzai as of 1996 is summarized in the following table:

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Description	Area (ha)	Area (%)
1.Agricultural land		
(1) Cultivated land	81064	(54.9)
(2)Grass land/Pasture	12,054	(8.2)
(3) Orchard/Strawberry	760	(0.0)
Sub-total of 1.	93,878	63.6
2. Other use	53,747	36.4
Total Area	147,625	100.0

As seen in the table, the agricultural land covers nearly 64 percent of the whole administrative area of Birzai.

The land ownership is classified in to the following categories in general:

- (a) Private land
- (b) State land
 - Rented/Leased
 - Not rented/leased

The proposed STP site is state land (not rented).

1.7 WATER SUPPLY AND SANITATION

The water supply conditions in Birzai are as follows:

- In the urban area, groundwater is pumped from deep wells (approximately 150m deep). Iron contained in the water is removed by a new treatment facility constructed in July 1997. Before then, the groundwater was supplied directly to the town.
- Iron (Fe) content is generally 1.50 mg/l 0.8 mg/l in the raw water and generally 0.1 mg/l 0.3 mg/l after treatment (finished water).
- The water system serves nearly 8,000 people, approximately 50 percent of the urban area.
- The maximum capacity of the water supply system is 3,000 m³/day, while the actual use is 1,000 to 1,500 m³/day, at present.
- The houses, buildings, and factories not connected to the water supply system generally use deep or shallow wells.
- The Water Company in Birzai manages the water supply as well as the sewerage.

There are no remarkable defects of sanitation for the water from the deep wells. However, water quality from the shallow wells has been deteriorating due to the use of fertilizer and

pesticides for agricultural activities, although the quantity of such chemicals has been remarkably reduced by the strict regulation. The survey results in 1994 show the following condition:

Item	Utban area	Surrounding
		area
Total No. of well surveyed	13 wells	6 wells
Exceeding the standard of NO ₂ N(45mg/l)	9 wells	2 wells
Exceeding the standard of NO ₃ -N(3.3mg/l)	l well	0
Exceeding the standard of NH ₄ -N(2.0mg/l)	2 wells	l well

There are no reports of local diseases in, and around, the study area. According to the chief doctor of the Human Health Center of DOH in Birzai, water related diseases have been decreasing over the years, although it does not mean that the drinking water became cleaner.

1.8 DRAINAGE, SEWERAGE AND WASTE DISPOSAL

The drainage system for rainwater is separated from the sanitary sewerage system. Approximately 28 to 37 percent of rainwater is drained directly to the rivers and lakes over the ground surface or in ditches. The remaining water seeps into the ground or evaporates.

The existing sewerage system was established in the early 1960's and consists of 27 km of sewer pipelines, four pump stations, and a treatment plant. The existing treatment plant has a capacity of 2,600 m³/s. Daily sewage volume is approximately 2,200 m³/s on an average. The Birzai Water Company has 560 connections and serves 51 percent (8,240 people) of the total population. Effluent from factories located in the town area is collected in the sewer network. The sewerage system covers almost the entire town area except for a part of the residential area that has been developed in recent years. The existing sewage treatment plant is located nearly 2 km southwest of town. The plant facility is composed of a receiving box and inlet channel, sedimentation tank, biological filter, aerated lagoon, stabilization pond, sludge lagoons, and a blower building.

Treated effluent is released from the treatment plant to the Juodupe River through a conduit approximately 2 km tong. The Juodupe River joins the Tatula River about 4.5 km downstream from the effluent discharge point. The sludge produced in the plant is stored in sludge ponds. The sludge is not utilized for farming and just kept in the ponds at present. The treatment efficiency of present facilities is low due to poor maintenance and old facilities. That is, the treated water released to the river is still polluted as seen in the water quality test record from July 1996 to June 1998. The mean values of major items are shown below:

1tem	BOD7	ss.	T-N	T-P
Inflow (ng/l)	5098	2398	43.9	5
Outflow (ng/1)	194	61.7	32 A	39

The construction of a new treatment plant was started in 1993 at the proposed 6 ha site located approximately 2 km south of the town. Work was suspended in 1995 due to shortage of funds. A new treatment plant with a capacity of 5,000 m³/day (daily maximum) will be required within a few years according to the study prepared by the JICA team. Then, the existing plant will be abandoned. The new plant has sufficient capacity to treat the sewage for the year of 2010.

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In addition to the treatment plants for public use (by Birzai Water Company), there are two treatment plants, as explained below:

(a) STP of a Dairy Factory

This treatment plant is located approximately 6 to 7 km northeast of the town area, in the Medeikiai village and is exclusively used for a dairy factory. Effluent is discharged into the Roveje River. The plant capacity is 1,000 m³/day. Present use of the plant is 600 to 700 m³/day in summer and 300 to 400 m³/day in winter. The water quality of the effluent is sometimes over the required standard, however the system is performing well in comparison with the Water Company treatment plant.

(b) STP of a Linen Factory

A linen factory located on the northeast side of the Sirvenos Lake exclusively uses this treatment plant. Effluent from the treatment plant is discharged into the Apascia River at about 3 km northeast of the factory.

There are two waste disposal sites for the town as follows:

(a) Solid waste disposal site

The site is located in the rural area, approximately 3 km south of the town area. A forest and an agricultural field surround the area. This site has been used for nearly 25 years. There are no data of waste volume or the site scale. The site area is 2 to 4 ha. The site was a depression with unknown depth. There is no separation of waste. Burning was carried out temporarily in the past. It was however suspended due to objections from the Ministry of Environmental Protection. There is no significant odor at the site although there are many flies.

(b) Liquid waste disposal site

The site is located approximately 0.5 km northwest of the Sirvenos lake. The site has four ponds. The largest pond is about 1 ha and 6 to 10 m deep. The other three ponds are smaller in scale. The ponds have no capacity to accept additional wastes, except through volume reduced naturally by seepage into the ground and evaporation. The ponds are generally used for disposal of sludge from factories and effluent from households not connected to the sewerage system. A forest and an agricultural field surround the area.

However, there are some houses located not so far from the site. The inhabitants complain about the odor from the pond. The odor is strong near the ponds.

1.9 PROTECTED AREAS AND OTHER SIGNIFICANT SITES

The legally protected areas aim to conserve and restore the following:

- (a) Nature and culture heritage features
- (b) Landscape ecological balance
- (c) Biodiversity
- (d) Gene pool for restoration of biota resources
- (e) Creation of conditions for the development of interpretive tourism
- (f) Research
- (g) Promotion of nature and cultural heritage protection

There are four categories of protected area as follows:

- (a) Conservation areas

 Strict nature or cultural reserves, protected landscape features, nature or cultural reserves
- (b) Protection areas

Protective zones for various purposes

(c) Restoration areas

Site where natural resources are protected or restored

(d) Integration area

National and regional parks, and biosphere monitoring areas

In the municipality of Birzai, there are protected areas as follows:

- (a) Birzai Regional park
- (b) Nemunelis-Apascia geological reserve
- (c) Latveliai botanical reserve
- (d) Birzai giria landscape reserve
- (e) Guodziai geomorphologic reserve

Among them, only "Birzai Regional Park" is located in, or around, the study area. The park has an area of 14,030 ha (13,694 ha in Birzai and 1,336 ha in Pusual). Zoning of the area is as follows:

(a) Reservation area

- Landscape reserve
- Geological reserve
- Telmological reserve
- Hydrological reserve
- Botanical reserve
- Botanical-Zoological reserve
- (b) Protected area
- (c) Recreation area
- (d) Residential area

However, according to the information from ecological staff of the municipality office, there are no reliable survey data yet concerning the fauna and flora in the park area.

Concerning the culture and heritage sites in the study area, there is no remarkable site which will be impacted by the project implementation. Although there are some monuments and old buildings/structures in, and around, the Birzai town area. It is not necessary to show them in detail as there is no such structure or place in the proposed site of STP or in the proposed route/sites of the appurtenant facilities.

