Cost	Project	Descriptions	Unit	Q'ty	2001-2010	2011-2020	2021 2030
Code					والمتعادية والمستحد		
20-1	Road	Special road	km		(1st priority) (240)		A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERT
	20-1-1	sp-2 new 6-lane	km	2.51			<ul> <li>BODD DOUD DOUDD CORP. See Market Bodd Double Corp.</li> <li>Bodda Baraa Bodda Bodda Bodda Baraa Baraa Baraa Baraa Corp.</li> </ul>
	20-1-2	sp-3 new 6-lane	kan	1.25			
20-2	Road	Main Streets of City Importance / Main Roads (arterial road)	kan	185.15			
	20-2-1	a-1 to a-10 new and improvement 4-6 land		91.18			
	20-2-2	sp-1 ring road new	km	75.50		2000 9000 9000 10000 10000 10000 10000	
20-3	Road	Main Streets of City Importance (primary road) 4-jane	km	83.14	p1.2 & p-12	2002 2003 2003 2003 2003 2003 2003 2003	<ul> <li>BORGA COMPARING COMPARING HERE</li> <li>BORGA COMPARING COMPARING HERE</li> <li>BORGA COMPARING COMPARING HERE</li> </ul>
		<ul> <li>A second s</li></ul>		2 - A			
	20-3-1	p-1 to p-11 new and improve	km	60.43			
20-4	Road	Main Streets of regional Importance (secondary road) 4-lane	km	152.54			
	20-4-1	s-1 to s-4, s-6, s-7, s-11 tos-20, s-19, s-20, s-22 to s-27, s-29	km	137.96			
		new and improve					
20-5	Road	Streets and Roads of Local Importance (tertiary road) 2-lane	km	77.85			
	20-5-1	TR1 t-1,2,3, t-5,6,7,8, t-44, t-46, 47, 48, 49, 5 new	kan	18.00	the state of the second s		
	20-5-2	TR2 t-10, 15 to 23, 25, 26, 28 to 33, 35 to 43, 45, 49, 51, 53, 54, 56 new	km	48.00			
	20-5-3	TR3 1-34, 55, 57 new	km	11.85			<ul> <li>Access access income income manual income process accessing for a 11.2</li> <li>Access access process process process access access access</li> </ul>
20-6	Public	Trolley bus project improvement	<u> </u>				
	20-6-1	Reconstruction and construction of catenary cables	kana	30	sender dealer deserve agence beinge the littlet		
	20-6-2	Power station construction	place	4			
20-7 & 8	Bridge						
	20-7-1	b-2 to b-24 new RC 4-6 lane	set	23			
	20-7-2	f-3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15 new RC 4-6 lane	set	11			
20-9	Tunnel						
	20-9-1	t-1 Road tunnel new	m	400.0			
0-10, 11, 12	LRT	Light Railway Transit					
	20-10-1	L-i 16-station new	km.	22.0			
	20-10-2	L-2 8-station new	km	8.0			
	20-10-3	L-3 23-station new	km	22.0			
20-13 to 17	Terminal						
	20-13	T-1 Akmola station	2	12,500			
	20-14	T-2 Abylaikhan station	2	3,000			
	20-15	T-3 City park of cultural & recreational c.		3,000			
	20-16	T-4 International exhibitation c. and city airport	<u>m2</u>	3,000			
	20-17	T-5 Government city	m2	2,000	1998 1998 1999 j.J. J. J. J		
20-18		control center	- <u> </u> -				
	20-18	Traffic light	set	180			
	20-19	Traffic control center	LS	1			
	Railway		<del>.  </del>	1			ANDER ANDER SCHWEIN SANDE ANDER ANDER ANDER ANDER ANDER ANDER SCHWEIN ANDER ANDER ANDER ANDER AND
	20-22	Railway	kom.	19.5			
-	20-23	Cargo yard	ha	30.0	anna anna anna anna bhairte anna dhairte Anna anna anna anna anna anna anna	2000 0000 2000 2000 2000 2000 2000 200	
	20-24	Cargo terminal	he	3.0			
		ational Airport	+	<del> </del>			
	20-25-1	Improvement of Astans International Airport	LS	1			
		new terminal buildings, technical service center, runway 3,600 mx45 m etc.	-	1		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
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#### Figure O.2.7 Implementation Schedule for Transportation Sector, Phase I. II and III

Cost	Project	Descriptions	Unit	Q`ty				001-2								- 2020						21 20	and the party of the local division of the l	
Code	110,000	Bearprotein	_		1 2	3 4	\$ 5	6	7 .8	8 9	10	11	12 1	3 14	15 1	6 17	18 15	20	21 25	2 23 2	4 25	26 3	7 28	29 30
20-1	Road	Special road	km	3.76	(Ist pr			(2=0	1)	On	<b>б</b> ).						1							
	20-1-1	sp-2 new 6-lane	km	2.51												1	5. T			:				
	20-1-2	sp-3 new 6-lane	km	1.25						÷) .						. ] 🎨	in i							
20-2	Road	Main Streets of City Importance / Main Roads (arterial road)	km	185.15															Ĺ				- E.	
	20-2-1	a-1 to a-10 new and improvement 4-6 lane	km	91.18		•		2-1	lo s-1(	<b>j</b>	. ·			11	a-	2, 6.	<b>9</b> (	· [	• • • •			8-6.		
	20-2-2	sp-1 ring road new	km	75.50			14	i kana 🗄	× . 1	: •	i.		]	141	m							47.5	km	
20-3	Road	Main Streets of City Importance (primary road) 4-lane	km	83,14		•											1							
	Road		_		P-	1, 2 & p	-11								a*		· · · ·							
			km	60.43				Joth	-						<u> </u>		기즈							
	20-3-1	p-1 to p-11 new and improve Main Streets of regional (mportance (secondary road) 4-lane	km	152.54		1	Ĩ					-		11					<b>†</b>	-+		+	-+-+	
20-4	Road	viali de cela di regionar Enperante (Perente)	km	137.96	<u> </u>			-	<u>i i i i i i i i i i i i i i i i i i i </u>					+	<u>-</u> t-	+			$\vdash$	···	-+-	t t	+	<u> </u>
	20-4-1	s-1 to s-4, s-6, s-7, s-11 tos-20, s-19, s-20, s-22 to s-27, s-29	NT	137.90	┝╼┿╍╹			-		<u>-  </u>			***			•			┝─┼╹					
		new and improve		77.05					· :					++					┟╼╍┾━	┿─┼		++-		$\pm$
20-5	Road	Streets and Roads of Local Importance (tertiary road) 2-lane	km	77.85		+	-+				<u>+</u>	<del> </del>		+		+			┢╧┼╋╴			+		+
	20-5-1	TR1 1-1,2,3, 1-5,6,7,8, 1-44, 1-46, 47, 48, 49, 5 new	km	18.00	┝╍╍┥╍╹	t <del>he da</del>	-	+		+-	$\left  - \right $		·	+ +	· · ·			┥╌┥	$\vdash$	+	-	╋┯╋	ti	+
	20-5-2	TR2 1-10, 15 to 23, 25, 26, 28 to 33, 35 to 43, 45, 49, 51, 53, 54, 56 new	km	48.00	·		_				<u>i</u>	-		++				+	┝━┼━	++		+	_ <u>_</u>	<u>i-</u>
	20-5-3	TR3 t-34, 55, 57 new	km	11.85				+ +		1	1		·	+-+	<u> </u>		- 1. • •	+ 1	┝─┼╹	<b></b>		<del> </del>	+	<u> </u>
20-6	Public	Trolley bus project improvement			ļ.		4	4		<u> </u>						+			⊨+-	++	<u>.</u>	┼╍╍┼╵	_ <u>_</u>	
	20-6-1	Reconstruction and construction of catenary cables	km	30	$\rightarrow$	• • • • • •	+							·++			and an	1	┝╍┥┷┙			++	+	
	20-6-2	Power station construction	place	4				1		4				1 · · ·	·   ·		<u></u>	-	$\vdash$	<u> .                                    </u>	-			
20-7 & 8	Bridge																2,122	4-4	┝	1· 1·	<u> </u>	1.	_	,
	20-7-1	b-2 to b-24 new RC 4-6 lane	set	23		<u>  b-</u>	6.7.:	8, 9, 1	غاي جات		Ì.				2 m	thers	10		تمامم		_	other		
	20-7-2	f-3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15 new RC 4-6 lane	set	11	· ·				1.	4, 4-15	· . '				- e	thers		1.			-	other	<u>s</u>	·
20-9	Tunnel								1. N	÷	12		-								_		4.3	
	20-9-1	t-] Road tunnel new	m	400.0			19		10		197	•	<u>.</u> 1						لمليم					
20-10, 11, 12	LRT	Light Railway Transit									:	<u> </u>	<u>. (</u>		··· · · · ·									
	20-10-1	L-1 16-station new	km	22.0	[ ] ·								<sup>1</sup> · · ·						<u> </u>		-			
	20-10-2	L-2 8-station new	km	8.0					문민준		19		1		<u> </u>							L_		<u> </u>
	20-10-3	L-3 23-station new	km	22.0			-			3 42			1		1	1	$\mathbb{N}_{2}^{1}$	•			- 1. <sup>1</sup> .			
20-13 to 17	Terminal										en l	- [	1								· · .		13	1.1
20-15 10 11	20-13	T-1 Akmola station	m2	12,500							121	• [		TT	1.1	1	10							
	20-13	T-2 Abylaikhan station		3,000		1 1				3	$d^{2}$	- 1					÷.,						-	
	20-14	T-3 City park of cultural & recreatioanl c.	m2	3,000					<			1							1		ŀ	$\square$		
	20-15	T-4 International exhibitation c. and city airport		3,000			-		47 G	10					1		с. 						1.1	
	20-16	T-5 Government city		2,000	<b> </b> :					1.					- †-	1.1	1.1			$\uparrow \uparrow$				
00.10							-	1									<u>e</u> (7	1-1			+	$\square$		
20-18		control center	set	180	-   <del>.</del> -			+ +				1	1	<u>†</u> -†				1		+	1			
	20-18	Traffic light	LS	180	$\vdash$	+-+-	+					-	+	┿	-	*			$\vdash$		+			
	20-19	Traffic control center		·	╞╌┼╍╍		+						-	╎╌┼		+	5			+ +	+	i-ti	11	
20-22	Railway			19.5			-	++				- [.	-+-	++	-									+
	20-22	Railway	ha	30.0	$\vdash$	┿╋	-	┉╉		1	101	╸╸┦		T T								+-+	-	
	20-23	Cargo yard	ha	30.0	<u> </u>	++-		┿┈╋	-			***	-	1	-	-	1.1			+	+	+		
	20-24	Cargo terminal	na	3.0	<u>├</u>	·+···-	+					***	-			+		+		++-	-+	+ <b> </b>		
20-25		ational Airport	1-1-	<u> </u>	<b>├</b> - <b>├</b>	++	+		3 - 1 		$\vdash$		+	+		+		┽╌┨	r	+-+		++	+	
	20-25-1	Improvement of Astana International Airport	LS		4 10 2.000		+	╪╉	-+-	-			+	┢╌┼		┽┅╆		┉	+	+	-	┿╍╍╁╸		
		new terminal buildings, technical service center, runway 3,600 mx45 m etc.				+	÷	++	····	+	$\vdash$	-+		╉╾╋		╺┼┯╼╄		+		+		+-	<u> </u>	
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#### Figure 0.2.7 Implementation Schedule for Transportation Sector, Phase I. II and III

lead time

(financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Q'ty	Т				20	01-201	0				1	2011-	2020	)				20	021 2	030	
Code				<del>```</del>		2	3	4	3	6 7	93 - D	瞷	11 12	13	14 1	5 16	17	DIDE	0 21	22	23 2	4 21	5 26	27 2	29 30
	IKC-lsh	im Pipeline Project, 1st Stage			đ	st pr	iorit	y)		(Jud)									j						
		Installation of pressure pipeline embeded steel, D1.4 m	km	9.60	) 🖄																80 P		8.17 77 (4)		
· . ·		Installation of non-pressure pipeline embeded RC, D1.2	km	10.00	) 🖄														. 1						un sit of
	30-1-3	Pump station with substation	n0.	2.00	) 🖾														1						
	30-1-4	Water pump, 7 m3/s, at existing P/S of IKC	set	2.00	)						• • • • • • •					Vik		4 Constants							1.1
	30-1-5	Water pump, 3.5 m3/s, at P/S of pipeline	set	3.00	) 🖄	89					tir i s ta s sa											8 J.	Sec.		
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30-2		im Pipeline Project, 2nd Stage			Å				8 B.		1 1 1 1														<i>e</i> 1 +
		Installation of pressure pipeline embeded steel, D1.4 m	km	9.60	-								<u> </u>						. 🔛						1.55
		Installation of non-pressure pipeline embeded RC, D1.2	km	6.80																					
	30-1-3	Pump, 3.5 m3/s	no.	2.00	) 🏼																				
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## Figure 0.2.8 Implementation Schedule for Water Resources Sector, Phase I. II and III

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lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Q'ty	1				200	1-2	010							201	1-2	202	0						20	)21;	2030	,	
Code					1	2	3	4	5	6	7 8	3.	9 10	0 11	12	13	14	15	16	17	18	19 2	20 2	21 [	22 2	23 2	24 25	5 26	27	28	29 30
30-1	IKC-Ish	im Pipeline Project, 1st Stage			(lst	pric	ority)	) 🗄		(2nd)		(	3rd)	2					цэ.,	:	1.5	5		·			<u> </u> .		·		
		Installation of pressure pipeline embeded steel, D1.4 m	km	9.60	_	1 .		·												Ър.			·			1:					
		Installation of non-pressure pipeline embeded RC, DI.2	km	10.00			• .		:			5.		· .												_					$\perp$
		Pump station with substation	no.	2.00		÷ ;	• •														·	2	:			[;					<u></u>
		Water pump, 7 m3/s, at existing P/S of IKC	set	2.00			- N.	1	:	:	: 47								412	de j			•							:	
	30-1-5	Water pump, 3.5 m3/s, at P/S of pipeline	set	3.00	<u> </u>	·											11			× .	S									_	
					<u> </u>						1997 - 1997 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	4				·	<b></b>	ļ					·			-		·		4	
30-2		im Pipeline Project, 2nd Stage			1							1					ļ					<u> </u>		_		_			<u>.</u>	-	
		Installation of pressure pipeline embeded steel, D1.4 m	km	9.60	ļ			1.2									Ľ_						-								
		Installation of non-pressure pipeline embeded RC, D1.2	km	6.80	<u> </u>				·		· · · ·			s.	<u> </u>	:	ļ	. :										•	-		
	30-1-3	Pump, 3.5 m3/s	no.	2.00								4				· ·				·			•					<b>.</b>		: : ·	<u> </u>
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#### Figure 0.2.8 Implementation Schedule for Water Resources Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

construction

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		Figure 0.2.7 Impremen	Unit	O'ty	2001-2010	2011-2020	2021 2030
Cost	Project	Descriptions	Unit	<u><u>v</u><u>v</u></u>	1 2 3 4 5 6 7 8 9110	11 12 13 14 15 16 17 18 19 20	21 22 23 24 25 26 27 28 29 30
Code					(1st priority) (2ad) Collect		
				·····			
40-1	3rd Water	Pipeline Project (No. 01-10/9 Project List No. 22)		60			
		Construction of 3rd water pipeline, 1-lane, steel, D1.0 m	km	50			
40-2	Constructi	on of water Supply Network Project					
	(No. 01-10	0/9 Project List No. 35)					
	40-2-1	Water supply networks	LS	1			
40-3	Reonstruct	tion of water Supply Networks (to check project no.40-4, same?)					
		0/9 Project List No. 37)					
	40-3-1	Water supply pump station	LS	1			
	40-3-2	Water treatment plant	LS	1			
40-4	Water sup	ply -priority project, 1st stage (The feasibility study has been car		by JICA in 2			
<b></b>	40-4-1	Intake facilities at Vyachslavsky reservoir, 200,000 m3/day	LS	1	Sector general concerner former former between E E E E E Sector former between the sector former between the sector of the sec		
	40-4-2	Water treatment plant, 100,000 m3/day	LS	1			
	40-4-3	Water distribution, replacement 99 km (D100-500 mm),	LS	1			
		new 75 km (D150-1,800 mm)					
<u> </u>	40-4-4	Individual water meter	pcs.	65,500			
40-5	Water sup	ply -priority project, 2nd stage					
	40-5-1	Intake facilities at Vyachslavsky reservoir, 150,000 m3/day	LS	1			
		for civil works, and 75,000 m3/day for mech. & elect. Works					
	40-5-2	Raw water transmission pipeline (4th), new D1,400 mm	<u>km</u>	66			
[	40-5-3	Water treatment plant, 120,000 m3/day	LS	1			
	40-5-4	Water distribution pipelines, new (D500-1,400 mm),	km	50			
40-6	Water sup	ply -priority project, 3rd stage		· · · · · · · ·			
<u> </u>	40-6-1	Intake facilities, 75,000 m3/day for mech. and elect. works	LS	1			
1	40-6-2	Water treatment plant, 100,000 m3/day	LS	1			
	40-5-4	Water distribution pipelines, new (D300-600 mm),	km	40			
<u> </u>	1				tendering contracting st()		

# Figure 0.2.9 Implementation Schedule for Water Supply Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

			Unit	Q`ty				200	)1-2(	)10							11-1									203		
Cost	Project	Descriptions		<u> </u>	1	$\frac{1}{2}$	3 4	5	6 7	7 8	19	10	11	12 1	3 14	15	16	17	18 ]	19 2	0 21	22	23	24	25   2	6 27	28	29 30
Code	·				(151 )			_	(2nd)	1	(3r)					1			. [								·	
							1		Ì		1													:			!	<u> </u>
40-1	3rd Water	Pipeline Project (No. 01-10/9 Project List No. 22)	km	50											. *					•				:				
		Construction of 3rd water pipeline, 1-lane, steel, D1.0 m			-					+		1			17	8	11							:	ļ			
40-2		on of water Supply Network Project			+			[				+																
		0/9 Project List No. 35)	LS	1			<u> </u>	$\vdash$						· .		11				1	1							
	40-2-1	Water supply networks	LS	1				-		-+		-			1	+						1				ļ	T	
40-3		tion of water Supply Networks (to check project no.40-4, same?)			+									-	1	1:	1.		-		·				_	-	1	
	(No. 01-10	0/9 Project List No. 37)	- 10								-	-	┝╌╍┼		•		· .		÷.			+	+	1			1	
	40-3-1	Water supply pump station	LS	1				-		-						+			-		~	·	+				-	
	40-3-2	Water treatment plant	LS							+		-				+					_		+	+				1-1-
40-4	Water sup	ply -priority project, 1st stage (The feasibility study has been car	ried out b	oy JICA in 1	2000	-200	<u>))</u>	<u> </u>												<u>· · </u>		+	+	+			-	<u>+</u> +-
	40-4-1	Intake facilities at Vyachslavsky reservoir, 200,000 m3/day		1	╷╺┥	<u>ه واه م</u>				-					_ <u>_</u>	~ <del>  .</del>							╞╧┙	++		+++		++
	40-4-2	Water treatment plant, 100,000 m3/day	LS	1							12											+	+			+-		++
	40-4-3	Water distribution, replacement 99 km (D100-500 mm),	LS	1		* • •						_								-+			+		1.		+	++
		new 75 km (D150-1,800 mm)								_		<u> </u>							$\rightarrow$				+'	╞─┼		+		++
	40-4-4	Individual water meter	pcs.	65,500								4-	$ \downarrow  \downarrow $		·		$\rightarrow$						'	┼──┼		<u> </u>		+
40-5	Water sup	ply -priority project, 2nd stage						<b> </b>		1					<u> </u>		÷	·		+	· -		+	+	+		<u> </u>	++
	40-5-1	Intake facilities at Vyachslavsky reservoir, 150,000 m3/day	LS	1						<u> </u>		_			<u> </u>				$\rightarrow$		-		<u> </u>	┝╌┼			<u> </u>	++
		for civil works, and 75,000 m3/day for mech. & elect. Works													<b>-</b>	·			-+		-		-	+		<u> </u>		++
	40-5-2	Raw water transmission pipeline (4th), new D1,400 mm	km	66												4	- <u> </u>		4				<u>+</u>			<u> </u>		+
	40-5-3	Water treatment plant, 120,000 m3/day	LS	1						1		-			_	<u> </u>	_			-+	- <del> </del>		-			<u> </u>	+	∔†-
	40-5-4	Water distribution pipelines, new (D500-1,400 mm),	km	50			·							_	_	· .				+	<u>.</u>		+			<u></u>	- <del> </del> -	+
40-6		ply -priority project, 3rd stage					· · ·			4				<u> </u>					_	4			<b>-</b>			<u> </u>		+ +
40-0	40-6-1	Intake facilities, 75,000 m3/day for mech. and elect. works	LS	1								.: [ ] . 				_				-	_			+			<u> </u>	+
	40-6-2	Water treatment plant, 100,000 m3/day	LS	1				11				<u>.</u>			_ <u> </u>					+		14	1			<u> </u>	-	++
	40-5-4	Water distribution pipelines, new (D300-600 mm),	km	40															_				<u> </u>				<u> </u>	+
	40-3-4	water distribution provinces, new (2000 cost many)							1.1	1									ч. Т						•			] [

# Figure O.2.9 Implementation Schedule for Water Supply Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

\_\_\_\_\_ lead time (

Cost IP	roject	Descriptions	Unit	Q'ty	2001-2010	2011-2020	2021 2030
Code	10,001				1 2 3 X L 6 7 8 9 9 1	11 12 13 14 15 16 17 17 10 120	21 22 23 24 25 26 27 28 29 30
					(1st priority) (2nd)		
50-1 F	Reconstr	uction of sewerage pump station	LS	1			
		0/9 Project List no. 37)					
		tion of sewerage pond	LS	1			
0	No. 01-1	0/9 Project List no. 63)					
		e Treatment Plant Rehabilitation					
5	50-3-1	Rehabilitationcapacity, 136,000 m3/day	LS	1			
		collection System Rehabilitation					
		Sewer pipes, D300-1,500 mm		1	202002 202002 202020 202000 102000 202000 202000 202000 202002 202002 202000 202000 102000 102000 102000		
5	50-4-2	Pump station	LS	1			
		Collection System Expansion	LS	1			
		Sewer pipes, D300-1,500 mm		<u> </u>			
!	50-5-2	Pump station	LS				
		e Treatment Plant Expansion (	LS				
	0-0-1	Expansion capacity, 40,000 m3/day					
50-7 5		Collection System Expansion (2)					
	CO-7-1	Sewer pipes, D300-1,500 mm	LS	1			
		Pump station	LS	1			
	0-7-2						
50-8 5	Sewerage	e Treatment Plant Expansion (2)					
		Expansion capacity, 42,000 m3/day	LS	1			
50-9 5	Sewerag	e Treatment Plant Rehabilitation					
	50-9-1	Rehabilitationcapacity, 136,000 m3/day	LS	1			
50-10 5	Sewerage	e Collection System Expansion (3)					
		Sewer pipes, D300-1,500 mm	LS	1			
		Pump station	LS	1			
· 1							

## Figure 0.2.10 Implementation Schedule for Sewerage Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Q`ty	T				2010						20	11-	202	0							21 20			
Code	110,000				1 2	3	4 5	6	7	8	9 10	u	12 1	3 14	15	16	17	18	19 2	) 21	1 22	23	24	25	26	27 2	8 2	) 3
0000					(1st pr	ority)	1	(21	d) (	(3	rd)				122	а.	0.			·								:
50-1	Reconst	ruction of sewerage pump station	LS	1			-				0.0 T P												:	<u> </u>	Ш			
		10/9 Project List no. 37)			1.1		-													<u> </u>			:		$\square$		·.   ·	_
50-2	·	ction of sewerage pond	LS	1														<i></i>		<u> </u>	-	<u> </u>	ļ	Ľ		<u></u>		1
		10/9 Project List no. 63)							. e : .	24		194		813			$\mathbb{R}^{2}$			<u>.</u>					⊢	<u> </u>	<u>.</u>	4
							2.			<u>(</u>					·   ·	1		. 94) 1						Ľ	┝━━╇		<u> </u>	1
50-3	Sewerag	e Treatment Plant Rehabilitation																à.						ļ	┝──┼	<u> </u>	<u> </u>	·   ·
		Rehabilitationcapacity, 136,000 m3/day	LS	I				11.		2					-	ļ		1		_	<u> </u>			ļ]				<u>_</u>
								.		ं।					-								-	$\vdash$	$\vdash$			
50-4	Sewerag	e collection System Rehabilitation			<u> </u>		0.08			4						ļ.,					-   ·	_		ļ	┟╍╍┥		$\rightarrow$	÷
	50-4-1	Sewer pipes, D300-1,500 mm	LS	1																	·			$\square$	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	50-4-2	Pump station	LS	1		-	•			<u>:</u>		1	L			ļ				4	·			$\vdash$	$\vdash$			
									1						_ <u> </u>	ļ				┛		-			<b>;</b>		_	_
50-5	Sewerag	e Collection System Expansion										• .			_						_	4	1	<u> </u>	<u>}</u>		_	
	50-5-1	Sewer pipes, D300-1,500 mm	LS	1						2	25.	1			_	ļ						1	_		┝╍╍╍┝		·	$\downarrow$
	50-5-2	Pump station	LS	1			1	1			24					ļ.,			5.0						└──┤			
					)										1	<u> </u>			1.			·	_		$\square$	_		
50-6	Sewerag	e Treatment Plant Expansion (						1		4		1	ļ		:					╞	-+			ļ	╞╍┥	<u> </u>		
	50-6-1	Expansion capacity, 40,000 m3/day	LS	1											 ** <del>**</del> **	<b>_</b>		: . 		1				_	┝──┼	+	_	+
						<u>  · . · ]</u>		1:	<u> ;-</u>	学行						<u> </u>	:.		197				- <u> </u>	<u>                                     </u>	⊢∔			
50-7	Sewerag	e Collection System Expansion (2)										1	<u>↓</u>		-	. ·				·		·		$\vdash$				+
	50-7-1	Sewer pipes, D300-1,500 mm	LS	1								•			-								-	<b></b>	┢─┤			+
	50-7-2	Pump station	LS	1	· ·							-		-	-					-+		-	<u> </u>				+	+
					_ <b> </b>		12					1				·				·	· 		+	<u> </u>	$\vdash$		4	+
50-8	Sewerag	e Treatment Plant Expansion (2)				·   -	-							· .							_					<u>·</u>	+	
	50-8-1	Expansion capacity, 42,000 m3/day	LS	1				9 - Se			190		_ ↓		1.					•				_			<u></u>	-+
									4.467	3.		· · ·			-	-				-				<u> </u>	$\vdash$			+
50-9		e Treatment Plant Rehabilitation																		+			-		$\vdash$	<u> </u>	+	
	50-9-1	Rehabilitationcapacity, 136,000 m3/day	LS	1		-    -					<u>.</u>					+					-	-		<u>—</u>	<b>}</b> +			
								· · · ·	,   -			:		<u>_i</u>		. <b> </b>				<u>.</u>	+ -			⊢	┢━┥	<u> </u>	_+	+
50-10		e Collection System Expansion (3)					<u> </u>	-		_		<u> </u>				<u> </u> .	-			_							+	+
		Sewer pipes, D300-1,500 mm	LS	1				-				: [ :	<u> </u>		·   ·	1				-	-				┝──┽			+
	50-10-2	Pump station	LS	1								·		·	·		·						-	<u></u>				
								ľ		1				1	· ·	·	1			1		i	1	<u>i</u>	<u>  (</u>			

Figure 0.2.10 Implementation Schedule for Sewerage Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

\_\_\_\_\_ construction

Cost	Project	Descriptions	Unit	Q`ty	2001-2010	2011-2020	2021 2030
Code	1				1 2 3 4 5 54 m h h h	11 12 13 14 15 16 17 51 51 20	21 22 23 24 25 26 27 28 29 30
					(Lat priority) (2md) (Citil		
60-1	Project fo	r Stormwater Drainage Development and Improvement					
	(District )	No, 1, 2, 3, 4A, 5, 6, 7, 8, 9, 10, 11, 12, 13, 17, central ind.,					
		, west ind., and station 40)					
	60-1-1	Construction of drainage pipelines	LS	1			
	60-1-2	Construction of drainage pump stations	LS	1			
	60-1-3	Construction of treatment statiion	LS	1			
60-2		r Stormwater Drainage Development					
		Io. 4B, 14, 15, 16, 17, 18, 19, central ind., station 40)					
	60-2-1	Construction of drainage pipelines	LS	1			
	60-2-2	Construction of drainage pump stations	LS	1			
	60-2-3	Construction of treatment statiion	LS	1			
60-3		r Stormwater Drainage Development		· · · · · · · · · · · · · · · · · · ·			
		lo. 11, 14, 15, 16)					
	60-3-1	Construction of drainage pipelines	LS	1			
	60-3-2	Construction of drainage pump stations	LS	1			
	60-3-3	Construction of treatment statiion	LS	1			
			_				
	·		_				
			_ <b>_ </b>				
		land time (financial arrangement feasibility study has					

#### Figure 0.2.11 Implementation Schedule for Storm Water Drainage Sector, Phase I. II and III

sasses lead time

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Qʻty			1	2001-	- 201	0					201	1-2	020			}			202	1 203	30	
Code					1 2	3	4	5 6	7	8	9 10	11	12 13	3 14	15	16 ]	17 18	19	20	21 2	22 2.	3 24	25	26  2'	7 28	29
					(1st pr	iority)	) .	(2)	nd) <sup>(</sup>	(3	rd)							1					t í			
60-1	Project fo	r Stormwater Drainage Development and Improvement						• • •						•								1:				
		No, 1, 2, 3, 4A, 5, 6, 7, 8, 9, 10, 11, 12, 13, 17, central ind.,					•••							: 1.2				11		-						
	north ind	, west ind., and station 40)							19 - 14 19 - 14	7 (n. 2 1		<u></u>				S.		1.								
	60-1-1	Construction of drainage pipelines	LS	1				· I	1																	
	60-1-2	Construction of drainage pump stations	LS	1												6 <sup>10</sup> - 1						<u>:</u>	<u> </u>			
	60-1-3	Construction of treatment statiion	LS	1										· · .		:e	· ·								_	
											<u>, 1</u>			1.11									<u> </u>			
60-2	Project fo	r Stormwater Drainage Development								· · · ·									n. –				$\square$			
	(District 1	Vo. 4B, 14, 15, 16, 17, 18, 19, central ind., station 40)						·		3. F.		·							<u> </u>				إينيا			
	60-2-1	Construction of drainage pipelines	LS	1					144					1				ŀ	· •				$\square$			
	60-2-2	Construction of drainage pump stations	LS	1							<u></u>		1			۰.										
	60-2-3	Construction of treatment statiion	LS	1													_	· ·	·							
								1	1							<u>.</u>	1.					1		•		
60-3	Project fo	r Stormwater Drainage Development									- <b>-</b>									· .					1. A A	
	(District )	Vo. 11, 14, 15, 16)					• • • • • •		_									1.27								
	60-3-1	Construction of drainage pipelines	LS	1							-	· · ·		_				<u> </u>		1						· .
	60-3-2	Construction of drainage pump stations	LS	1			1																			
	60-3-3	Construction of treatment statiion	LS	1		·	- 1 <sup>-1</sup>	1 11			· .					. : .	511. 1								1.0	•
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Figure 0.2.11 Implementation Schedule for Storm Water Drainage Sector, Phase I. II and III

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lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cont	Project	Descriptions	Unit	Q'ty	2001-2010	2011-2020	2021-2030
Code						III II III III III III III III IIII IIII	21 22 23 24 25 26 27 3 32 3
				I	(List priority)		
70-1	Ishim Ri	iver improvement Works (No. 01-10/9 Project List No. 33)					
	70-1-1	Dredging and channel formation, section from the estuary	km	4.0			
		of Ak-Bulak river to complex of government buildings					
70-2	Reconst	ruction of Ishim River Embankment (No. 01-10/9 Project list no. 57)					
	70-2-1	Embankment (section, 4 & 5)	LS	1.0			
			· ·				
70-3	Reconst	ruction of Bank of Ak-Bulak River, 2nd stage (No. 01-10/9 Project list no. 59)					
	70-3-1	Reconstruction of Bank of Ak-Bulak River	LS	1.0			
	- -		· · · ·				
70-4	Ishim R	iver Improvement, L=3 km (Sary alka street to confluence Saru-Bulak river)		·			
	70-4-1	Excavation (open cut and dredging)	LS	1.0			
	70-4-2	Embankment	LS	1.0			
	70-4-3	Construction of weir	LS	1.0			
	70-4-4	Related structures	LS	1.0			
1.1	1. J.						
		iver Improvement, L=3 km (new city center to 2nd ring road, Saru-Bulak river					
		ing road)	· ·	<b>_</b>			
		Excavation (open cut and dredging)	LS	1.0			
	70-5-2	Embankment	LS	1.0			
		Construction of weir	LS	1.0			
	70-5-4	Related structures	LS	1.0			
70-6		iver Improvement (2nd ring road to 3rd ring road)		· · ·			
		Excavation (open cut and dredging)	LS	1.0			
		Embankment	LS	1.0			
	70-5-3	Related structures	LS	1.0			
70-7		ction of Flood Regulating Resevoir					
		Embankment for dike	LS	1.0			
		Flood control gate	LS	1.0			
	70-5-3	Related structures	LS	1.0			
				ł			<ol> <li>Stead of the state of the state</li></ol>

Figure 0.2.12 Implementation Schedule for Flood Protection Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

construction

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Cost	Project	Descriptions	Unit	Q`ty					2010						201				_				021-			
Code					1 2	3	4	5 6	7	B 9	10	$ \mathbf{n} $	12 1	3 14	15	16 1	17 18	19	20 2	21 2	2 23	24 2	5 26	27	28	29 3
					(1st pr	ierity)		(2	id)	(31	<b>'d</b> )							1	· · ·			ļ., ļ.	_	1	$\square$	
70-1	Ishim R	iver improvement Works (No. 01-10/9 Project List No. 33)												۱.									· · ·	<u> </u> .		· 1
	70-1-1	Dredging and channel formation, section from the estuary	km	4.0											-					_	_	:		<u> </u>		
		of Ak-Bulak river to complex of government buildings								4												:			Г . I	
								;  , ;	- 10 - <sub>11</sub>	e Sr							<u>        </u>		•							
70-2	Reconst	nuction of Ishim River Embankment (No. 01-10/9 Project list no. 57)								2	( ). E	ŀ	- j :						· .					1		$ \rightarrow $
		Embankment (section, 4 & 5)	LS	1.0			· []			$\mathcal{P}(\chi)$	<u>_</u>							1.5	· • •						lint.	
					5 g 8					<u>i</u>	11 10 1			<u> </u>								·		<u> </u>		
70-3	Reconst	ruction of Bank of Ak-Bulak River, 2nd stage (No. 01-10/9 Project list no. 59)								$\langle  \rangle$	<u></u>		1						19 <sup>1</sup>						<u> </u>	
		Reconstruction of Bank of Ak-Bulak River	LS	1.0				· · · · · · · · · · · · · · · · · · ·				1	-					ļ	2		1.					_
									2005 <u>(</u>				<u></u>	· ·		1		ļ						<u> </u>	L I	
70-4	Ishim R	iver Improvement, L=3 km (Sary alka street to confluence Saru-Bulak river)				· · · · ·	•••• 1	1. Ja		<u> </u>					1.1			1		<u></u>						<u> </u>
		Excavation (open cut and dredging)	LS	1.0						3 S																
		Embankment	LS							2						.11			N.C.							•
	70-4-3	Construction of weir	LS	1.0													2 <sup>65</sup> .									
	70-4-4	Related structures	LS	1.0				-					1.1		1.2		1. 191									
								4	• • • • •	S. 2.						•										
70-5	Ishim R	iver Improvement, L=3 km (new city center to 2nd ring road, Saru-Bulak river					;	: F.																	$\square$	
		ing road)					· .	1						·   .					2							
		Excavation (open cut and dredging)	LS	1.0			:	·							-											
		Embankment	LS	1.0					1 a 1	3, 53				1			÷е ,		•		<u> </u>	-			$\square$	
		Construction of weir	LS	1.0				***		~ 0					) 					·			_			
	70-5-4	Related structures	LS	1.0										1	1	2			-		1					
										3				•				12.	·						Ĺ	
70-6	Ishim R	iver Improvement (2nd ring road to 3rd ring road)						: 1		e 4							<u> </u>								$\square$	
	10.000 C	Excavation (open cut and dredging)	LS	1.0	. 2. 22					20						·		10.1			:		·	_		
		Embankment	LS	1.0						8 L	2 1 2 2			•							_			$\perp$	: ·	
		Related structures	LS	1.0						C 13	1					· .	· .	- · ·						1	$\square$	_
							ŀ			·								Ļ				ļ		$\downarrow$	$\square$	_
70-7	Constru	ction of Flood Regulating Resevoir																							$\square$	$\perp$
		Embankment for dike	LS	1.0																			- ·	<u> </u>	↓↓	$\perp$
	70-6-2	Flood control gate	LS	1.0			•					ŀ					<u> </u>						<u></u>		┢━━┿	
		Related structures	LS	1.0					<u> </u>	_					1								➡_		_↓	
							ŀ									<u>.</u>		[·]							$\square$	
						TI		1.1			T										1.1			1		

## Figure 0.2.12 Implementation Schedule for Flood Protection Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Qʻty	2001-2010	2011-2020	2021 2030
Code	110,000				1 2 3 4 5 6 7 (840400	11 12 13 14 15 16 17 18 49 90	21 22 23 24 25 26 27 28 29 30
0006				· · ·	(1st priority)		
80-1	110/10 k	V Substation and Power Transmission Line project					
	Develop	ment of power supply system of Astana city upto 2007, 1st stege)					
	(No. 01-1	0/9 Project List no. 32), involves to project no. 80-3 below					
	80-1-1	Construction of 110 kV transmission line from airport to left bank	LS	1.0			
		of Ishim River (new city center)					
	80-1-2	Construction of 110/10kV substation "left bank"	LS	1.0			
80-2		onal Electric Power and Heat Energy Generating Plant Project					
	80-2-1	Power and heat energy generating plant in 2006	MW	115.0			
80-3	Project fo	r 110 kV Transmission Line and Substatios					
	80-3-1	Construction of 110 kV transmission line, underground & overhead	km	61.4			
		(included 80-1-1 above, TETs-2 airport switching substation)					
	80-3-2	Construction and extension of substations	place	3.0			
80-4	Repair an	d restoration of abondoned heat mains and distribution networks					
	of the city	(No. 01-10/9 Project list No. 38)					
	80-4-1	Repair, restoration of abondoned heat mains & distribution networks	LS	1.0			
80-5	Construct	ion of Heat Station No.6 (No. 01-10/9 Project list No. 41)	LS	1.0			
	80-5-1	Heat pump station no.6					
80-6	Project fo	r Extension of Existing District Heating Pipelines to New City Center					
	and New	development Area the Right Bank of Ishim River					
	80-6-1	Extension to new city center	LS	1.0			
	80-6-2	Extension to nnew development arac, right bank of Ishim river	LS	1.0	A 4		
80-7	Project fo	r Construction of 3 Heat Centers					
	80-7-1	Heat center, HC-1, HC-2, HC-3	place	3.0			
	80-7-2	Related pipelines on the left bank of Ishim river	LS	1.0			
80-8	Construct	ion of 110 kV Transmission Line and substations					
	80-8-1	Transmission lines	km	40.5			
	80-8-2	Substation	place	2.0			
80-9	Natural G	as and Heat Energy					
	80-9-1	Combined cycle plant	MW	150.0			
	80-9-2	Natural gas pipelines	LS	1.0			
80-10	Construct	ion 3 Heat Centers and Related Pipelines, left Bank of Ishim River					
	80-10-1	Heat center,, HC-4, HC-5, HC-6	place	3.0			COURTS INCOME DESIGNATION OF THE REAL PROPERTY AND THE REAL PROPER
		Pipelines	LS	1.0			
80-11	Construct	ion of 110 kV Transmission Line and Substation					The second
	80-11-1	Transmission line	km	12.7			CORE CORE DESIGN AND A CORE OF A COR
		Substation including extension	place	1.0		2000 2000 2000 2000 2000 2000 2000 200	
80-12		as Firing Gasturbine Combined Cycle Plant				2002 2002 2004 2004 2009 2004 2009 2004 2005 2005 2005 2005 2005 2005 2005	
		Gas turbine combined cycle plant	MW	200.0		200 200 200 200 200 200 200 400 200 200	
	80-12-2	Natural gas pipelines	LS	1.0			
80-13	Constructi	on of One Heat center, Extension of Four (4) Heat Centers and					
		pelines on the left bank of Ishim River					
		Hot water boilers	set	19.0			
		Buildings	place	1.0			
	80-13-3	Pipelince	LS	1.0			Recent Report Second Scott A. A. A. A. A.
		1. Construction of the second se Second second sec second second sec					

#### Figure 0.2.13 Implementation Schedule for Power and Heat Energy Sector, Phase I. II and III

seed time

(financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

construction

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	T		Unit	O'ty	T			2001	- 20	10						20	11-2	2020					<del>, .</del> ,		21 2			
Cost	Project	Descriptions			1 2	2 3	4	5 0	5 7	8	9	10 1	11 11	2 1	3 14	15	16	17	18 ]	9 2	0 2)	22	23	24 25	26	27 2	28 29	9
ode	<u></u>				(1st p				2nd)		(3rd)		.		1	1.					_				4			
		/ Substation and Power Transmission Line project			- The state of the					1.1			. 1		12		с. С.			·		$\downarrow$		:		<u> </u>		
80-1	110/10 kV	Substation and Power Transmission Entry project						•	÷.			-	2	21.								<u> </u>		; :	-+			
_	(Developr	ment of power supply system of Astana city upto 2007, 1st steger			1		I	1.						ĉ.				_		. 1		÷		:	<u> </u>		<u> </u>	
		[Construction of 110 kV transmission line from airport to left bank	LS	1.0					1:			14									<u>.</u>		ļ					4
	80-1-1	Construction of 110 kV transmission line from an port to felt outk				- [	-			1.		-	X::								<u> </u>	· .			- i - i			$\rightarrow$
		of Ishim River (new city center) Construction of 110/10kV substation "left bank"	LS	1.0			-		1.1									·					1			$\rightarrow$		
	80-1-2	Construction of 110/10K v substation Terr bank				1		· · .			T		- 1	i		1			S. 1		·		1		_			
80-2		mal Electric Power and Heat Energy Generating Plant Project	MW	115.0			1		σ	ET - 1	2)	· · · ] .				1				·	<u>.</u>		ļ			$\rightarrow$	<u> </u>	
<u>.</u>	80-2-1	Power and heat energy generating plant in 2006				1	1				T	· .			1		÷								$\perp$	لمشم		
80-3		r 110 kV Transmission Line and Substatios	km	61.4			-		···			:													لينبل	⊢∔	<u></u>	
	80-3-1	Construction of 110 kV transmission line, underground & overhead				-	1 .												·	* .			ļ	·	$\square$	╧┷╋	<u> </u>	
		(included 80-1-1 above, TETs-2 airport switching substation)	place	3.0			1.									ŀ .				<u> </u>	1	1				$\square$		_
	80-3-2	Construction and extension of substations														1	· .		•	1						Ŀ		
80-4	Repair an	d restoration of abondoned heat mains and distribution networks					+			ĸ					1	· · .	·		: C	6.	• •							
_	of the city	(No. 01-10/9 Project list No. 38)	LS	1.0			<u> </u>			1		221		-1-	1						÷. []							
	80-4-1	Repair, restoration of abondoned heat mains & distribution networks	LS	1.0			-	1.1						- 1-		- · ·	ŀ			24	11.1			1		Ľ		_
30-5	Construct	ion of Heat Station No.6 (No. 01-10/9 Project list No. 41)		1.0		+	-+							- 1	- Hin	1			1	~ I.								
	80-5-1	Heat pump station no.6								1.2				<u>+</u>		1	1			: • F	: .	1						_
30-6	Project fo	r Extension of Existing District Heating Pipelines to New City Center				1.	·			+					-	-1												
	and New	development Area the Right Bank of Ishim River	LS	1.0				┝╌┝	-						1	· .	1:00				<u>, '</u>	ŀ					· · ·	•
	80-6-1	Extension to new city center	LS	1.0					-	10.0			-+				+				0 7							_
	80-6-2	Extension to nnew development arae, right bank of Ishim river		1.0			<u> </u>		╧┅┨╼╍		+		+		-					-			1					
80-7	Project fo	r Construction of 3 Heat Centers		3.0		+			<del> </del>		+		-	- +		-		-	. 1	<u> </u>		1	1.					•
	80-7-1	Heat center, HC-1, HC-2, HC-3	place		┢─┟╴	+	+	- 1			†**-		+		+	+										<u> </u>		7
	80-7-2	Related pipelines on the left bank of Ishim river	LS	1.0				··~ •	<u></u>		1				+	+	+			- Î			+	-				
80-8	Construct	ion of 110 kV Transmission Line and substations		10.0	╇			L. I.	<del> .</del>	1.	1.1	- 1	<u> </u>	•+-		+	+	<u>F</u>	-+	-	+						<u> </u>	
	80-8-1	Transmission lines	km	40.5	++						-head		1	- 1	-	-							+		+			
	80-8-2	Substation	place	2.0			<u> </u>			+	معل						1	<u></u>			÷	+	1-					-
80-9		as and Heat Energy											÷÷	TEI	<u>_</u>	-	- <u>+</u>		<u> </u>				-+					
	80-9-1	Combined cycle plant	MW	150.0		_	- <u> </u>	<u> -</u>	a a a u	4	+	-		<u>(1E)</u>		+	+	<u> </u>				-+	- <del> </del>		-+-		r=+	1
	80-9-2	Natural gas pipelines	LS	1.0					نعامه		-		<b></b>	÷			+	<b> </b>							-		r==+	-
0-10	Construct	ion 3 Heat Centers and Related Pipelines, left Bank of Ishim River			<u> </u>			<u>⊢</u>		+			-			-				÷+		-+-	+		+.	++	· · · · ·	-
0-3.0	80-10-1	Heat center,, HC-4, HC-5, HC-6	place	3.0			<u> </u>			-		-		-+				-			<u> </u>	-+	+	·		<u>†</u> †	<u> </u>	
		Pipelines	LS	1.0	L.		1	L_	_				÷									÷	-			+	<u>⊢</u>	-
0-11	Construct	ion of 110 kV Transmission Line and Substation						<b></b>	_ <u>_</u>		-			_	+		1. 1.					<u>+-</u>		<u>├</u>		++	F	••••
0-11	20 11 1	Transmission line	km	12.7			·		44		_		_		_	~+-	<u> </u>		1		<u>.</u>	s mận tr						-
	80 11-7	Substation including extension	place	1.0													·+	<u> </u>	. e 14 		<u>ii</u> lu	1.04.01.0	-			1		-
0-12	Notural G	as Firing Gasturbine Combined Cycle Plant						L-	4		<u> </u>			<del></del>			+	<u> </u>	<u> </u>			+	T	T5-2)		+	$\vdash$	<u> </u>
0-12	Na(u)a) O	Gas turbine combined cycle plant	MW	200.0							<u> </u>						. <b>4</b> .4.1	4. LL		-		a signar				+/	++	
	80 12 7	Natural gas pipelines	LS	1.0												_	. <b>.</b>			-	-	+	-			+'	+	
0.12	00-12-2 Contract	ion of One Heat center, Extension of Four (4) Heat Centers and									<u> </u>			<u> </u>	4		+	<u> </u>	• .v	<u></u>			-+	++		+'	┝╍┼	-
0-13	Construct	ipplines on the left bank of Ishim River				T					1	1. 1					4	<u> </u>		_				┼┈┼╴	<u>·</u>	+	┢──┾	_
	Related P	The sector of the feature	set	19.0							1.1	<u>  · ·  </u>					.	1.7			<u> </u>			╎╴┊┙	an fa a	اسببو	┝╍┯┿	-
		Hot water boilers	place	1.0									·			•	1.							⊢∳		ý <b>me</b>	÷	-
		Buildings	LS	1.0							1.1		{	·			1							<u> </u>	2.9 <b>2.</b> 9.	<u> </u>	╞━┿	-
	80-13-3	Pipelines					-+	*****		E			; ;							- 4		1						_

# Figure 0.2.13 Implementation Schedule for Power and Heat Energy Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

lead time construction

Cost	Project	Descriptions	Unit	Qʻty	2001-2010	2011-2020	2021 - 2030
Code					122335367000	11 12 13 14 15 16 17	21 22 23 24 25 26 27 28 29 30
					(Lat priority) (2mil)		
<u>90-1</u>		City Gas Supply Network Project					
		Establishment of gas supply company	LS	1.0			
		Construction of high pressure network	LS	1.0			
		Construction of low pressure network	LS	1.0			
	90-1-4	Construction of supporting facilities	LS	1.0			
90-2		ply Network Expansion Project (1)					
	90-2-1	Construction of high pressure network	LS	- 1.0			
		Construction of low pressure network	LS	1.0			
	90-2-3	Construction of supporting facilities	LS	1.0			
		and the second					
90-3		ply Network Expansion Project (1)					
		Construction of high pressure network	LS	1.0			
· ·	90-3-2	Construction of low pressure network	LS	1.0			
	90-3-3	Construction of supporting facilities	LS	1.0			
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#### Figure 0.2.14 Implementation Schedule for Gas Supply Sector, Phase I. II and III

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lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Q`ty	Γ				200										- 20										2030	
Code	1	······································			1	2	3	4	5	6 /	1 8	3 9	10	11	12	13	14 1	5 1	6 1	7 11	8 15	> 20	0 2	1 22	23	24	25	26	27 28	3 29 3
	1				(13	it pr	iority	)	. (	2nd)		) (3r	ď)	. :		4	•						4							
90-1	Astana	City Gas Supply Network Project								9) :									2	e 😳						<u> :</u>	ļ		·	
	90-1-1	Establishment of gas supply company	LS	1.0					9 - 1 - 1 - 1 9 - 9 - 1 - 1			2				21						31		<u> </u>	-	:				
		Construction of high pressure network	LS	1.0							·		_			:48   							<u>.</u>	_						
		Construction of low pressure network	LS	1.0			NR		8-8 M		• •	20 C	· .							1						_			<u> </u>	
	90-1-4	Construction of supporting facilities	LS	1.0		:   ·				1			•		÷	-		·					·	_	<u> </u>	1		ŀ		
						·					1			ļ		· _	·   ·							<u> </u>			·			
90-2		oply Network Expansion Project (1)										<u> </u>	ê 13 ê	·					····			·		4			ļ	ļļ		
		Construction of high pressure network	LS	1.0	1	-	-					3								_			_		<u> </u>		1	$\vdash$	<u> </u>	<u> </u>
			LS	1.0	Ŀ						· .	č, el		<u></u>		<u></u>		-		-				· ·	÷					
	90-2-3	Construction of supporting facilities	LS	1.0	ļ	:			1.12			84 (j.							•	1				· .	<u> </u>	· · ·	··	ļ.	·::	
	[				L	-   ·					: ر.   : ••••						· .													
90-3		ply Network Expansion Project (1)			ļ		: .			·   ·				ļ		_							· .							
		Construction of high pressure network	LS	1.0	ļ				5. s.				_						·				-		<u> </u>			<b> </b>		
		Construction of low pressure network	LS	1.0	Ŀ	_										•						-	+		<b>_</b>	+		Ľ		
	90-3-3	Construction of supporting facilities	LS	1.0	ļ	-						2							<u> </u>		i di n	-	-					╎┈┥		
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#### Figure 0.2.14 Implementation Schedule for Gas Supply Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

construction

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Cost	Project	Descriptions	Unit	Q`ty			2001-2010				2011-20	20			2021 2		7
Code	Tioject	Deveripation			1	2 3			11 12	13 14	15 16 1	72: Ol	0 21 22	23 24	25 26	27 28	29 3
CODE						priorit	Local and a second to a second second										
100-1	Installatio	n of Telephone on the left bank of Ishim River															
100-1		0-/9 Project list No. 36)												- (i)			250
		Installation of telephones	LS	1.0		SS [33		<b>(</b> ۱ د ب									
	100-1-1																1.1.1
100-2	Astana Ne	w Local Telecommunication Network Project (1) 61,200 lin	ies														
100-2		Switching system	system	3.0				, int <sub>a</sub> ssi, int				e di S					
		Transmission system (STM-16-ADM)	system	3.0				1. Santa				No. Acie L					
	100-2-3	Digital loop carrier equipment	system	3.0				1.01					<u>.</u> 88 83			1	
	100-2-4	Outside plant	sct	3.0													uros-
	100-2-5	Power supply system	set	3.0													1
	100-2-6	Buildings	set	3.0				- <b>-</b>									
	100-2-7	Training	LS	1.0													
100-2	Astana Ne	w Local Telecommunication Network Project (2) 143,000 lin	)es					. <u>1</u> 2									1.1.1
100-4	100-2-1	Switching system	system	3.0				1. 1. 1. 1.	9000 (1993) 								
	100-2-2	Transmission system (STM-16-ADM)	system	1.0					<u>aves</u> (2003) :								4267A
		Digital loop carrier equipment	system	1.0				۵. اور ۲۰۰۰ و	20022 20022								
	100-2-4	Outside plant	set	3.0													
		Power supply system	set	3.0				5 N									
	100-2-6	Buildings	set	3.0				لايخ وجو									*
	100-2-7	Training	LS	1.0				1. 18 M									
100-2	Astana Ne	w Local Telecommunication Network Project, Expansion 202,000 lin	163												的建筑		
		Switching system	LS	1.0													
		Transmission system (STM-16-ADM)	LS	1.0	_	<u> </u>											
		Digital loop carrier equipment	LS	1.0													
		Outside plant	LS	1.0	_								् <sup>6858</sup> तथ 				1
		Power supply system	LS	1.0								<b>a</b> (). (					
		Buildings	LS	1.0										88	藏藏		1.70
		Training	LS	1.0													1
						<u> </u>		• 2									. Don 3
100-3	Administra	ation Data Communication Network project													Tener (U.S.		· 1644-
		Capital sub-center system	LS	1.0													10.1
		IT center system	LS	1.0		i i i i											
								a to she				a contra a succe da					448

## Figure 0.2.15 Implementation Schedule for Telecommunication Sector, Phase L II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Un	it Q'ty				20	01-	201	0						2011	- 20	20			<u> </u>				21 20			- <del></del>
Code						1 2	3 4	-5	6	7.	8	9 10	0 1	l 12	13	14	15 1	6 17	7 18	19	20	21	22 2	23 24	\$ 25	26	27 2	8 29	30
0000	<b>-</b>					1st prie				(be		3rd) -		1 :	~	$\frac{1}{22}$		: 		. 12.	1			·				·	<u> </u>
100-1	Installatio	n of Telephone on the left bank of Ishim River											1						L					:				_	
		0-/9 Project list No. 36)				T.			2.1	1	4 g.			12					L	1	1							<u> </u>	<u> </u>
		Installation of telephones	LS	1.	0				1.	1								1			1			:					$\perp$
	100-1-1																1	. :			Ċ								
100-2	Astana Ni	ew Local Telecommunication Network Project (1) 61,	,200 lines																	- 			$\downarrow$			<u> </u>			$\perp$
100-2	100-2-1	Switching system	syste	-m 3.				_											1							ļ			+
	100-2-2	Transmission system (STM-16-ADM)	syste	-m 3.	0		-	_																		$\downarrow$			1
	100-2-3	Digital loop carrier equipment	syste	-m 3.	0													·		-	4_					$\downarrow \downarrow$			+
	100-2-4	Outside plant	set	3.								<u>an</u> 1								.:	<u> </u>	ļļ					$\rightarrow$		-
	100-2-5	Power supply system	set	3.	0									_					_	_									
	100-2-6	Buildings	set	. 3.	0					19 Å.							· .						$\downarrow$			++	$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		
	100-2-7	Training	LS	ì.	0		_				1			·					:	1	L.					ŀ			4
	100 1 /	*******************						1.11		[ [ [ [ [ [ ] ] ] ] ] ]				_	1			1	4				_		_	$\square$		<u> </u>	
100-2	Astana Ni	ew Local Telecommunication Network Project (2) 143,	000 lines									5 C (						• []	1		-		$\_\downarrow$			<u>.</u>		4	
	100-2-1	Switching system	syste	-m 3.	0						4 1 			·						1					<u> </u>	4	<u> </u>		-
	100-2-2	Transmission system (STM-16-ADM)	syste	m l.	0				1 : . :		<b>.</b>			-						-	1		·			<u> ·                                    </u>		_	4
	100-2-3	Digital loop carrier equipment	syste	m l.	0							 			-	ан. С			3		·  .			$\rightarrow$		<u></u>		·	_
I	100-2-4	Outside plant	set	3.	0			1.			<u>_</u>		<u>.</u>	{	_			· •		1	1.5							·	
	100-2-5	Power supply system	set	3.	0			1	1.1					-	_						10		_			$\downarrow$	$\perp$		_
	100-2-6	Buildings	set	3.	0					1			-		_			_	_		:					<u>   </u>	$\rightarrow$	1	4
	100-2-7	Training	LS	1.	0				1		·									-			$\rightarrow$			<b>_</b>			_
							_					<u>.</u>						·		1			$\rightarrow$		<u> </u>	++			Ļ
100-2	Astana Ne	w Local Telecommunication Network Project, Expansion 202,	000 lines						· · · ·		<u></u>				1			_	┉┥╧									$\perp$	4
100 -		Switching system	LS			·			1 : •					Ľ.				- :		<u> </u>				<u> </u>	_	44		<u> </u>	1
	100-2-2	Transmission system (STM-16-ADM)	LS	1.	0							<u></u>	·	_	_		· ·	: -	_		4			_	$\perp$				4
		Digital loop carrier equipment	LS					17.	1.11		1							_					<u> </u>					4	•
	100-2-4	Outside plant	LS					1.1						1:						•			=			$\square$	<u> </u>	<u> </u>	_
		Power supply system	LS					-						·	<u> </u>						• • •		<b>_</b>	_				$\perp$	÷
		Buildings	LS				···:	_		1	1		· · •	_ <u>_</u>	-				•						_	4			
		Training	LS	1.	0		<u>.</u>			1.0	$M_{\rm el}$	84 N.			·	<u> </u>		. 12		• •	-		<b></b>	_		4-4	$\rightarrow$	<u> </u>	+
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100-3	Administra	ation Data Communication Network project								1			<u>.                                    </u>		-					1	-		⊢∔		+		$\perp$	<u> </u>	$\downarrow$
		Capital sub-center system	LS		_										1			÷		-	· · ·		⊢∔		$\perp$	4	<u> </u>		_
		IT center system	LS	1.	0	_							$\perp$	·				-	<u> </u>		·1 ·	4	⊢––					<u>.</u>	_
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# Figure 0.2.15 Implementation Schedule for Telecommunication Sector, Phase I. II and III

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lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	Project	Descriptions	Unit	Q'ty	ŀ			20	01-20						11-20					2	2021 2	2030	
Code					1	2	3	4 5	6	1	145	11	2 13	4 15	16 13		<sup>6</sup> 년네 2	4 22	23	24 2	5 26	22	0 295 30
				2	(1		lanty)																
110-1	Landfill	-1 Project																					
		Improvement of existing ladfill site	LS	1.0							÷.,												to D. A set
		Construction of landfill-1 (15 ha, civil works)	ha	15.0																			•
	110-1-3	Machinery for landfill-1	LS	1.0																			
	110-1-4	Machinery for waste collecction and transportation	set			8								×.									
	110-1-5	Machinery for city cleaning	LS	1.0				100 A			- Q. A												
		Dendorological center	LS	1.0																			
110-2		is HSW (Hospital Solid Waste) Incinerator Project (1)												20 B							23 A424		
	110-2-1	Construction of HSW incinerator	LS	1.0			COC	····														a	S RECENTION
110-1	Landfill	-2 Project (Phase 1)																					
		Construction of landfill-2 (18.3 ha, civil works)	ha	18.3							يە ئارىمى ر												
		Machinery for landfill-2 (Phase 1)	LS	1.0							المراجعة الم										800		
110-2		is HSW (Hospital Solid Waste) Incinerator Project (2)																			SALE REAL	Par 64	
		Construction of HSW incinerator	LS	1.0													<u>-</u>				2000 2000		
110-3		ollection Vehicle (1)						<u></u>															
		Procurement, machinery for waste collection & transportati	set	18.0						965 965				oracia Maria								10.000	5.44
110-4		ale MSW (Municipal Solid Waste) Treatment Project																					
		Construction of MSW intermediate treatment plant	set	1.0																			
110-5		y Center Recycling Center project																					
		Construction of recycling center	m2_	400.0							· ' ·												
110-1		2 Project (Phase 2)		16.0							2							20 23 NG 92					15 - 19 - 54 * 15 - 19 5 %
L		Construction of landfill-2 (46 ha, civil works)	ha	46.0										※ ※						38000189 200038			
		Machinery for landfill-2 (Phase 2)	LS	1.0										202 (A) 200 (A)			979 MARCON 1999			<u>1983</u> 2005			
110-6		al Solid Waste (MSW) Transfer Station									\$					關							
L	110-6-1	Construction of MSW transfer station	place	1.0										100 開始 201 (201			- K]∰ [:]	≪.∎≐ ∞ &	•••				
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Figure 0.2.16 Implementation Schedule for Solid Waste Sector, Phase I. II and III

••••••• lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

Cost	c       1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       24       25       26       27       28       27																													
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110-1	Landfill-	-1 Project					8. F	48 <u>(</u> ) (					÷.		2						S	ni en Sint								
			LS								2015 1015				2						S.A.	l N I. L		:						
	110-1-2	Construction of landfill-1 (15 ha, civil works)	ha	15.0										182 J.	5 P		8		1.55			· · ·								
	110-1-3	Machinery for landfill-1	LS	1.0	-				<u>'</u>		ि		- <b>1</b> 1 		e i li	].	· .		1.1	1.1								<u>                                      </u>		
	110-1-4	Machinery for waste collecction and transportation	set	100.0						:   · · ·		12			•		_			1		-						<u>↓                                    </u>		
	110-1-5	Machinery for city cleaning							1				· · ·								1.10					_	_			
			LS	1.0																	. ~.					· • •		<u> </u>		
110-2	Hazadou	s HSW (Hospital Solid Waste) Incinerator Project (1)									2					· .												<b> </b>	<u> </u>	
	110-2-1	Construction of HSW incinerator	LS	1.0									:				-	. ·	ļ	1								·	•.	
110-1	Landfill	2 Project (Phase 1)				185					~		£.,			_		4		ŀ								$\vdash$		
-	110-1-1	Construction of landfill-2 (18.3 ha, civil works)		18.3	<u> </u>									-			•			1322	.:	<u> </u>		·						
	110-1-2	Machinery for landfill-2 (Phase 1)	LS	1.0											-			1.	:	jir.		; ·	·			_			·	
110-2	Hazadou	s HSW (Hospital Solid Waste) Incinerator Project (2)				: :			<u> </u>								_		·							_		ļ.		
	110-2-1	Construction of HSW incinerator	LS	1.0	1		· · ·							_		-		· [ .								_		<b> -</b> -		
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110-1							<u></u> .			-		. S	-				-											┝╍╍╍╋┿		Ī
	110-1-1	Construction of landfill-2 (46 ha, civil works)						<u> </u>					<u>i</u>					+ .				_				-				
		Machinery for landfill-2 (Phase 2)	LS	1.0	<u> </u> ;												· · ·	<u> </u>										<u> </u>		
110-6	Municip	al Solid Waste (MSW) Transfer Station							1			1255						•												
	110-6-1	Construction of MSW transfer station	place	1.0	-   - <sup>:</sup>		<u>.</u>										-   ·		ļ					• • •		_	_	$\vdash$		
						с. С. С. С						1.11						}		·					1	ļ	1		;	

## Figure O.2.16 Implementation Schedule for Solid Waste Sector, Phase I. II and III

lead time (financial arrangement, feasibility study, basic design, tender design, tendering, contracting etc.)

No.	Name or User of Building	Туре	No.of	Unit	Q`ty		Phase 1	(2001-2	.010)		P	hase	II (2	011-	2020	)						021-2		
			story		(floor area)	1 2	3 4	5 6		10 11	12 1	3 14	15	16 []	7 18	19	20	21   2	2 23	24	25 2	5 27	28) 29)	30
I	Government Area	1																	a 🔅			2 (d).		
<b>1</b>	Residence for President	RC	4	m2	20,000		33 <b>8</b> 3 6		2002			8	lst	prio	rity g	roup	200		*					
2	President's Administration	RC	17	m2	40,500																	新聞		
3	Perliament	RC	17	m2	63,500					4			2nd	prie	onity ;	grouj	)							
4	National Security Committee	RC	7	m2	30,000												100						n i J	6
5	Supreme Court	RC	7	m2	40,000			T))				<u>.</u>	3rd	prio	rity ş	group					翻劇			
	Cabinet of Ministers	RC	- 7	m2	30,000				1991 E 1 (***								yes.				A S			
7	Ministry of Interior Affairs	RC	7	m2	30,000				د همه ا	- 200			12					8. S						
	Ministry of State Revenue	RC	7	m2	20,000				1992			\$ 88 S									<b>新新</b>			
9	Ministry of External Affairs	RC	12	m2	12,000										And A						新聞			
10	Ministry of Culture, Information and	RC	7	m2	20,000		20 <sup>1</sup>						15.1			4	1.00	<u>_</u>					-	
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11	Ministry of Science and High Educati	RC	7	m2	30,000														22					
12	Ministry of Health Care, Education	RC	7	m2	30,000																197 197 197			
	and Sports													5 H.	R.	i			<b>6</b>			1.1.20		
13	Ministry of Energy, Industry, Trade an	RC	7	<u>m2</u>	38,000														**	88				kî Kiriş
	Environmental Protection, R.K.			m2				the the g						11		1								
14	Ministry of Labor and Social Security,	RC	7	m2	40,000								やな				2000							
	Ministry of Agriculture, Agency of R.K																- 200					1312000 1919		
15	Ministry of Defense	RC	7	m2	20,000								20				1.1							
	Ministry of Justice	RC	7	m2	20,000												200							
	General Prosecutor Office	RC	7	m2	15,000											1, 1			di du	<u>.</u>	<b>唐朝</b> (199			i
18		RC	14	m2	130,000																制料		i A <sub>ND</sub>	
19	Ministry of Transport, Communication	S	40	m2	40,000																			
	and Tourism	· .													a set						記録			
	Universal Hall	RC	4	<u>m2</u>	66,000					700000														
21	National Library	RC	6	<u>m2</u>	400,000															$\left\{ \begin{array}{c} 1 \\ 1 \end{array} \right\}$				
	Service Facility (Commercial Building	RC		m2	56,525			Q assures restate and	2													्रा सम्बद्धाः सन्दर्भ		
	and Apartment)			m2																				-1
	Total			m2	1,191,525				1. 1. 1.	: : :					anne Sone						通知書			
				·									196.0											1.3
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- 1	World Trade Center			m2	150,000															1			softers	
4	Commercial District 13			m2	145,747			anan danis dan	and standard in the	1			nie okaza sie sie Statunisti St					k į					16.3	
	Total			m2	2,285,222										繝						制制			
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Lege	nds;	Impler	nentatio	MA:			· _		udur hanin		• • •													ς

## Figure 0.3.1 Implementation Schedule for New City Center at Residential District 13 and 14, Phase I, II, and III

#### Legends;

Structure type of building:

S ....: Steel structure type

RC : Reinforced Concrete structure type

SRC : Steel Reinforced Concrete type

a a lead time (financial arrangement, feasibility study, basic design, detailed design, tendering, contracting etc.)

No	Name or User of Building	Туре	No.of	Unit				_		(20	01-2	201	))					nase							$\perp$						021-			1.
			story		(floor area)	1	2	3	4	5	6	7	3	9 1	0	11 1	2   13	14	15	16	[17	18	115	20	) [2]	12	2 2:	3 2	4 2:	5 26	27	28	29	3
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2	President's Administration	RC	17	m2	40,500																		1		_			<u> </u>					1.1.	į
3	Perliament	RC	17	m2	63,500		-					ŀ	•		1	1			2r	id p	rior	ity (	gro	up						1		<u> </u>	Ŀ	:
4	National Security Committee	RC	7	m2	30,000						6 I (m	ĺ										1	<u> </u>			ŀ								
5	Supreme Court	RC	7	m2	40,000											- E.			3r	d pr	iori	ity g	<b>,</b> ΓΟι	ıp		-							-	
6	Cabinet of Ministers	RC	7	m2	30,000															_		-											<u> </u>	ļ_
7	Ministry of Interior Affairs	RC	7	m2	30,000			1	. [					•	17		1			_												<u></u>	<u> </u>	<u> </u>
8	Ministry of State Revenue	RC	7	m2	20,000														!	•	1	м.,									•			j.
9	Ministry of External Affairs	RC	12	m2	12,000						. [:		3	ч. (-	25	1.1	1		1			1.					_				1.1		<u>  ··</u>	Ŀ
10	Ministry of Culture, Information and	RC	7	m2	20,000	[			L ti		<u>, .</u>		203						1				1.1				Ĺ							-
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11	Ministry of Science and High Educati	RC	7	m2	30,000				5. T 💼					e; 5			1		· ·										-					ľ
	Ministry of Health Care, Education	RC	7	m2	30,000			• •	1,1			T			20			·		:		12					Τ	1.				-		
<u> </u>	and Sports		~ <del>.</del>										30		1	<u>.</u>		1	1	10						÷Į		Τ						
13	Ministry of Energy, Industry, Trade an	RC	7	m2	38.000								(.) 	2.2.5						1			1						-		1	1	1.1	
1.0	Environmental Protection, R.K.			m2	<u>_</u>		† f						÷ .		î.			1.		. :	1								-		1		1	
14	Ministry of Labor and Social Security,	RC	7	m2	40,000							42					-	1.	1	1.1		1.	1		-	· I		Τ	1.	1	1	1	1	1
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15	Ministry of Defense	RC	7	m2	20,000					.			a l	1							1													÷
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17	General Prosecutor Office	RC	7	m2	15,000		1						1		-			1	T	T	1.					1		T			1			Γ
18	SME (Small & Medium Entrepreneur	RC	14	m2	130,000		1					!			-		1.	Τ.	1	Ţ			· ·	1		Τ								ŀ
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	and Tourism							1						1			.]			f :	1.	1.	1	T		-				1				1
20	Universal Hall	RC	4	m2	66,000			ः । •							191			1.	1	ŀ		11							1		1	2.4	1	-
	National Library	RC	6	m2	400,000														T.				12.	· .				Τ		1		1	T	1
27	Service Facility (Commercial Building	RC	3	m2	56,525					{	(	D.							1	(2	)					1				-	-			T
	and Apartment)			m2								-								1.0			1	144		1.						1	1	
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											-		11						1												-	-		T
IT.	<b>Business Area including Commercial</b>		{				-		·							1. J. A.	-	ľ										-		1			1.	
<u> </u>	Area	-										-	2 N	<u> </u>										12				-			1:	1 .	1.	T
1	Business District 13	ł		m2	901,475				1		(	1)							1	-1	(2	)		1		1	-						1	T
2	Business District 14			m2	1,088,000						ì	1	- (	1)	۳ſ.				1		1	1	(	2)								+	(3	ゔ
<u>2</u> 3	World Trade Center	——†		m2	150,000								- C C.		7				1				1	Ĩ		1.		1		-	-	1.	1	Ť
4	Commercial District 13			m2	145,747				1		÷÷÷	Ť	6	1)					1	1	+	•	(2	)						-		1	(3	Ť
	Total			m2	2,285,222				A B	or le	0.0						T					1.0			T	1	T	-	-			1	1	t
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■ ■ • ead time (financial arrangement, feasibility study, basic design, detailed design, tendering, contracting etc.)

# Figure O.3.1 Implementation Schedule for New City Center at Residential District 13 and 14, Phase I, II, and III

#### Legends;

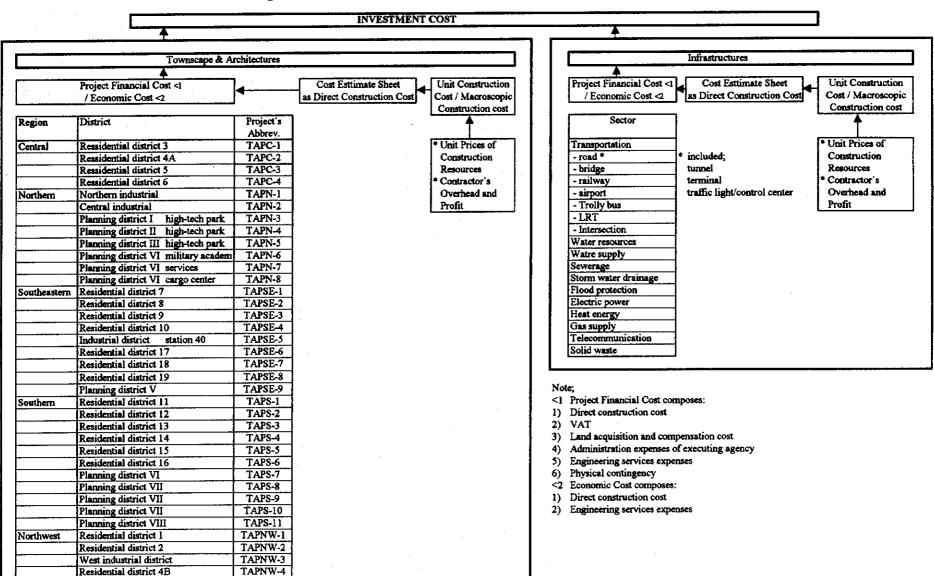
Structure type of building:

S : Steel structure type

RC : Reinforced Concrete structure type

construction

SRC : Steel Reinforced Concrete type

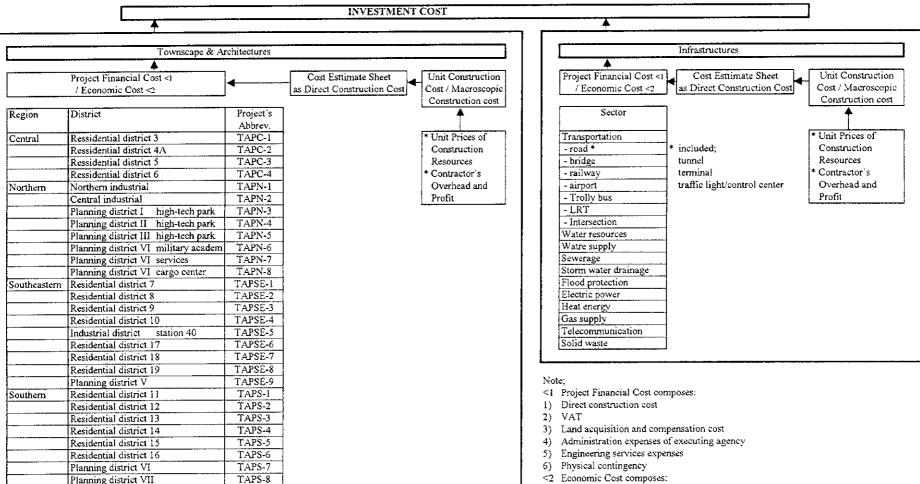


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Planning district IX

TAPNW-5

Figure 0.4.1 Estimate Flow of Investment Cost for Development of the City of Astana



TAPS-9

TAPS-10

TAPS-11

TAPNW-1

TAPNW-2

TAPNW-3

TAPNW-4

TAPNW-5

Planning district VII

Planning district VII Planning district VIII

Residential district 1

Residential district 2

West industrial district

Residential district 4B Planning district IX

Northwest

#### Figure 0.4.1 Estimate Flow of Investment Cost for Development of the City of Astana

- Economic Cost composes: <2
- 1) Direct construction cost
- 2) Engineering services expenses