

Table 9.4.3.4 Financial Plan (Wastewater Treatment) - Payment of Interest - Case II

Item	Total Cost	Completed	(Unit JD million)																				
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Balance of Long Term Loans (Loans=100%, Repayment Period=30 Years, Grace Period=5 Years, Annual Interest Rate=6%)																							
Wastewater Treatment Projects																							
01-WW Upgrading and Expansion of Sams WWTP	105.0			5.0	30.0	60.0	85.0	105.0	105.0	100.8	96.6	92.4	88.2	84.0	79.8	75.6	71.4	67.2	63.0	58.8	54.6	50.4	46.2
02-WW South Amman Wastewater Project Phase I Stage 2	70.0						5.0	10.0	30.0	50.0	70.0	70.0	67.2	64.4	61.6	58.8	56.0	53.2	50.4	47.6	44.8	42.0	39.2
03-WW Ain Ghazal Pre-Treatment Plant and Collector	45.0	27.0	43.0	45.0	45.0	45.0	45.0	43.2	41.4	39.6	37.8	36.0	34.2	32.4	30.6	28.8	27.0	25.2	23.4	21.6	19.8	18.0	16.2
04-WW Miscellaneous Small Projects	44.0		4.0	8.0	12.0	16.0	20.0	24.0	26.2	28.5	30.7	33.0	35.2	33.4	31.7	29.9	28.2	26.4	24.6	22.9	21.1	19.4	17.6
05-WW Inlet Stage I	43.0	34.0	43.0	43.0	43.0	43.0	43.0	41.3	39.6	37.8	36.1	34.4	32.7	31.0	29.2	27.5	25.8	24.1	22.4	20.6	18.9	17.2	15.5
06-WW Jordan Valley Sanitation - North Zarrah	30.0							5.0	15.0	25.0	30.0	30.0	30.0	28.8	27.6	26.4	25.2	24.0	22.8	21.6	20.4	19.2	18.0
07-WW Inlet Stage II	48.0			2.0	10.0	20.0	30.0	40.0	48.0	46.1	44.2	42.3	40.3	38.4	36.5	34.6	32.6	30.7	28.8	26.9	25.0	23.0	21.1
08-WW Ongoing Rehabilitation Various Cities	30.0	20.0	30.0	30.0	30.0	30.0	30.0	28.8	27.6	26.4	25.2	24.0	22.8	21.6	20.4	19.2	18.0	16.8	15.6	14.4	13.2	12.0	10.8
09-WW Mazar, Ma'ra and Alchayqa Wastewater Projects	28.7								9.6	19.2	28.8	28.8	28.8	28.8	27.7	26.5	25.4	24.2	23.1	21.9	20.8	19.6	18.5
10-WW Aqaba Wastewater Project	12.0				3.0	8.0	12.0	12.0	12.0	12.0	11.5	11.0	10.6	10.1	9.6	9.1	8.6	8.2	7.7	7.2	6.7	6.2	5.8
11-WW Ma'ra and Adjacent Areas Wastewater Project	18.0			6.0	12.0	18.0	18.0	18.0	18.0	17.3	16.6	15.8	15.1	14.4	13.7	13.0	12.2	11.5	10.8	10.1	9.4	8.6	7.9
12-WW Wadi Moosa Wastewater Project	20.0	13.0	20.0	20.0	20.0	20.0	20.0	19.2	18.4	17.6	16.8	16.0	15.2	14.4	13.6	12.8	12.0	11.2	10.4	9.6	8.8	8.0	7.2
13-WW Community Infrastructure Wastewater Project	10.0			2.0	5.0	8.0	10.0	10.0	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4
14-WW Sakab Wastewater System	10.0				2.0	5.0	8.0	10.0	10.0	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8
15-WW Upgrading Kufriya and Ajlun WWTP	12.0				3.0	9.0	12.0	12.0	12.0	12.0	11.5	11.0	10.6	10.1	9.6	9.1	8.6	8.2	7.7	7.2	6.7	6.2	5.8
16-WW South Amman Wastewater Project Phase I - Jaz/Talbiya	11.0			3.0	7.0	11.0	11.0	11.0	11.0	10.6	10.1	9.7	9.2	8.8	8.4	7.9	7.5	7.0	6.6	6.2	5.7	5.3	4.8
17-WW Dead Sea Wastewater Infrastructure	6.0			2.0	4.0	6.0	6.0	6.0	6.0	5.8	5.5	5.3	5.0	4.8	4.6	4.3	4.1	3.8	3.6	3.4	3.1	2.9	2.6
18-WW Madaba WWTP Upgrade and Expansion	6.0		1.0	3.0	5.0	6.0	6.0	6.0	5.8	5.5	5.3	5.0	4.8	4.6	4.3	4.1	3.8	3.6	3.4	3.1	2.9	2.6	2.4
19-WW Upgrading Ma'ra WWTP	6.0				0.6	3.0	6.0	6.0	6.0	6.0	5.8	5.5	5.3	5.0	4.8	4.6	4.3	4.1	3.8	3.6	3.4	3.1	2.9
20-WW Upgrading Talla WWTP	6.0					0.6	3.0	6.0	6.0	6.0	6.0	5.8	5.5	5.3	5.0	4.8	4.6	4.3	4.1	3.8	3.6	3.4	3.1
21-WW Upgrading and Expansion of Karak WWTP	23.0			1.0	5.0	9.0	13.0	17.0	21.0	22.1	21.2	20.2	19.3	18.4	17.5	16.6	15.6	14.7	13.8	12.9	12.0	11.0	10.1
22-WW Upgrading Madras WWTP	5.5			1.4	4.2	5.6	5.6	5.6	5.6	5.4	5.2	4.9	4.7	4.5	4.3	4.0	3.8	3.6	3.4	3.1	2.9	2.7	2.5
23-WW Raatha WWTP Upgrade & Expansion	6.0			3.0	5.0	6.0	6.0	6.0	6.0	5.8	5.5	5.3	5.0	4.8	4.6	4.3	4.1	3.8	3.6	3.4	3.1	2.9	2.6
24-WW Abu-Husayn WWTP Upgrade & Expansion	3.0								1.0	2.0	3.0	3.0	3.0	2.9	2.8	2.6	2.5	2.4	2.3	2.2	2.0	1.9	
25-WT Jordan Valley Community Waste Management Project	2.0			0.5	1.0	1.5	2.0	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2	1.1	1.0	1.0	0.9
<b>Total</b>	<b>600.2</b>	<b>94.0</b>	<b>141.0</b>	<b>174.9</b>	<b>246.8</b>	<b>330.7</b>	<b>396.6</b>	<b>444.1</b>	<b>493.2</b>	<b>522.9</b>	<b>544.0</b>	<b>529.2</b>	<b>513.7</b>	<b>488.9</b>	<b>464.9</b>	<b>440.9</b>	<b>416.9</b>	<b>392.9</b>	<b>368.9</b>	<b>344.8</b>	<b>320.8</b>	<b>296.8</b>	<b>272.8</b>
Payment of Interest		3.8	5.6	7.0	9.9	13.2	15.9	17.8	19.7	20.9	21.8	21.2	20.5	19.6	18.6	17.6	16.7	15.7	14.8	13.8	12.8	11.9	10.9
Local Cost=20%, Foreign Cost=80%																							
Wastewater Treatment Projects Total		75.2	112.8	139.9	197.4	264.6	317.3	355.3	394.5	418.3	435.2	423.4	409.3	391.1	371.9	352.7	333.5	314.3	295.1	275.9	256.7	237.5	218.2
Payment of Interest		3.0	4.5	5.6	7.0	10.6	12.7	14.2	15.8	16.7	17.4	16.9	16.4	15.6	14.9	14.1	13.3	12.6	11.8	11.0	10.3	9.5	8.7

Table 9.4.3-5 Financial Plan (Wastewater Treatment) - Payment of Principal - Case II

Item	Total Cost	Completed	(Unit: JD million)																				
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Financial Terms: Loans=100%, Repayment Period=30 Years, Grace Period=5 Years, Annual Interest Rate=8%																							
Wastewater Treatment Projects																							
01-MW Upgrading and Expansion of Samra WWTP	105.0								4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
02-MW South Amman Wastewater Project Phase I Stage 2	70.0											2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
03-MW Ain Ghazal Pre-Treatment Plant and Conveyer	45.0					1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
04-MW Miscellaneous Small Projects	44.0						1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
05-MW Irbed Stage I	43.0					1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
06-MW Jordan Valley Station - North Shore	30.0												1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
07-MW Irbed Stage II	48.0							1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
08-MW Oajong Rehabilitation Various Cities	30.0					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
09-MW Matar, Mafiq and Alkhatayba Wastewater Project	28.7												1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10-MW Ajlun Wastewater Project	12.0								0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
11-MW Na'ir and Adjacent Areas Wastewater Project	18.0								0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
12-MW Wadi Mousa Wastewater Project	20.0					0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
13-MW Community Infrastructure Wastewater Project	10.0								0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
14-MW Sakab Wastewater System	10.0									0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
15-MW Upgrading Kufayin and Adho WWTP	12.0									0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
16-MW South Amman Wastewater Project Phase I - Jaz/Talaha	11.0									0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17-MW Dead Sea Wastewater Infrastructure	6.0									0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18-MW Madaba WWTP Upgrade and Expansion	6.0							0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19-MW Upgrading Ma'in WWTP	6.0									0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20-MW Upgrading Talla WWTP	6.0										0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21-MW Upgrading and Expansion of Karak WWTP	23.0									0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
22-MW Upgrading Madaya WWTP	5.5									0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23-MW Rashtia WWTP Upgrade & Expansion	6.0									0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24-MW Abu-Nasser WWTP Upgrade & Expansion	3.0												0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-MT Jordan Valley Community Waste Management Project	2.0									0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Totals	600.2	0.0	0.0	0.0	0.0	0.0	5.5	7.5	16.9	18.5	18.7	21.5	22.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Local Cost=50%, Foreign Cost=50%																							
Wastewater Treatment Projects Total		0.0	0.0	0.0	0.0	0.0	4.4	6.0	13.5	14.8	15.0	17.2	18.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2

Table 9A.3-6 Financial Plan (Wastewater Reuse) - Investment Cost, Payment of Interest &amp; Payment of Principal - Case II

Investment Cost	Item	Total	(Total JD)																						
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
	Abu Nurur			114,140										28,860											
	Aqaba				1,643,720	1,643,720			658,060	658,060					810,160	810,160			593,710	593,710					
	Fajar															19,240									
	Irbid (Central and West Arab)							809,900					146,250									258,700			
	Karak									168,090					72,150										
	Kufraja												227,500									227,500			
	Mafan												194,064										49,836		
	Madaba				311,038											239,850									
	Mafraq					274,846										112,164									
	Easttha								278,824												232,661				
	Tafelah										178,542												133,668		
	Wadi Arab							809,900														258,700			
	Wadi Beer																40,900								
	Wadi Hasser																	85,800							
	Wadi Mousara								105,560						9,620										
	Al Jena				278,200										222,430										
	Deir Abi Saïd															527,180									
	Deir Alla					632,801											152,129								
	Esfra Ajlun											354,120							37,831						
	Aqaba South Coast						138,516																126,036		
	Haze												154,180							31,750					
	North Queen Alia Airport								411,450						205,726							205,726			
	North Jordan Valley				546,754											292,770							156,406		
	Shams Soufa					404,040											356,720								
	Tona																	456,100							
	Wadi Shalala							597,285															77,642		
	Muzar, Muzar, Athariya									173,160													64,480		
	Dead Sea East Coast									0	320,783														
	As-Sanra	15,200,001				666,667	666,667	666,667					2,333,333	2,333,333	2,333,333								2,066,667	2,066,667	2,066,667
	Total	35,607,679	0	114,140	2,779,712	3,022,074	3,022,268	1,351,767	1,110,044	1,157,385	2,625,833	2,914,953	2,681,577	316,356	1,565,210	1,806,324	670,969	415,774	828,027	1,032,097	2,740,473	2,525,677	2,327,019		
	Total (M JD)	35.618		0.114	2.780	3.022	3.022	1.352	1.110	1.157	2.626	2.915	2.682	0.316	1.565	1.806	0.671	0.416	0.828	1.032	2.740	2.526	2.327		
	Investment Cost Total			114,140	2,779,712	3,022,074	3,022,268	1,351,767	1,110,044	1,157,385	2,625,833	2,914,953	2,681,577	316,356	1,565,210	1,806,324	670,969	415,774	828,027	1,032,097	2,740,473	2,525,677	2,327,019		
	- #m - (M JD)			0.114	2.780	3.022	3.022	1.352	1.110	1.157	2.626	2.915	2.682	0.316	1.565	1.806	0.671	0.416	0.828	1.032	2.740	2.526	2.327		
	Financial Terms: Equipment Period=30 Years, Grace Period=5 Years, Annual Interest Rate=6%																								
	Debt Balance	(M JD)		0.114	2.894	6.516	9.538	10.890	12.000	11.733	12.955	14.425	15.683	14.575	14.715	15.097	14.344	13.336	12.739	12.347	13.663	14.765	15.667		
	Interest (Loans=100%)			0.005	0.116	0.261	0.382	0.436	0.480	0.469	0.517	0.577	0.627	0.583	0.589	0.604	0.574	0.533	0.510	0.494	0.547	0.591	0.627		
	Interest (Loans=80%)			0.004	0.093	0.209	0.305	0.348	0.384	0.375	0.414	0.462	0.502	0.466	0.471	0.483	0.459	0.427	0.408	0.395	0.437	0.472	0.501		
	Payment of Principal (Loans=80%)								1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139		