## **FINANCIAL ANALYSIS**

1. **Provincial Water Supply and Sanitation Project (PWSSP):** The government will grant the proceeds of the loans for water supply and sanitation subprojects in four provinces. The implementing agencies will be expected to fully cover operating and maintenance (O&M) costs from fees collected to ensure sustainability. Consistent with *Operations Manual G2: Financial Management, Cost Estimates, Financial Analysis and Financial Performance Indicators* (2014) of the Asian Development Bank (ADB), financial due diligence was undertaken, see Table 1.

**Table 1: Provide Heading** 

	Implementing		Funds	Financial Analysis Undertaken			
Province	Agencies	Subprojects	flow	FIRR	Sustainability	Affordability	
Battambang	Battambang PWW	Water supply	On-granted	No	Yes	Yes	
	DPWT	Wastewater system	On-granted	No	Yes	Yes	
Kampong	Kampong Cham	Water supply	On-granted	No	Yes	Yes	
Cham	PWW						
	DPWT	Septage treatment facilities	On-granted	No	Yes	Yes	
Sihanoukville	DPWT	Wastewater system	On-granted	No	Yes	Yes	
Siem Reap	DPWT	Replace interceptor sewer	On-granted	No	Yes	Yes	

DPWT = Department of Public Works and Transportation; FIRR = financial internal rate of return; PWW = Provincial Waterworks.

- 2. **Urban Water Supply in Cambodia.** The Ministry of Industry and Handicrafts (MIH), through its General Department of Potable Water Supply, oversees all public water utilities: Phnom Penh Water Supply Authority (PPWSA) and Siem Reap Water Supply Authority (SRWSA), both of which are autonomous, and 11 provincial waterworks (PWWs). After the civil war (year started—year ended), PPWSA underwent extensive reforms to become efficient and profit—making. MIH's financial and technical support helped the other utilities become profitable and provide better services, replicating PPWSA's success. MIH wants all autonomous by 2019. ADB's second project to improve urban water supply services in provincial towns, the Provincial Water Supply and Sanitation Project, will help achieve 100% 24-hour water supply coverage by 2025. The government is considering adjusting water tariffs every 5 years to ensure sustainability, and a 4-band tariff structure similar to PPWSA and SRWSA, to ensure low-income households (LIHs) can afford safe water.
- 3. **Battambang Water Supply.** Two existing water treatment plants (WTPs) have a total capacity of 33,520 cubic meters per day (m³/day) and serve 14,249 service connections (about 31% of the population). A new 50,000 m³/day WTP and related facilities will increase access to piped water to about 98% by 2022. The PWW generated net income of KR428 million in 2014 and KR1,106 million in 2015 after losses of KR236 million in 2013. Projected financials indicate sustainability (Table 2).

Table 2: Battambang Provincial Waterworks - Current and Projected Tariffs

	Table 2. Datta	iibaiig i i	Ovinciai vva	CI WOI KS	Our Citt ai	ia i rojecte	u raiiis	
	Yea	r	Year 2020 Year 2025		Year 2030			
	Monthly		Monthly		Monthly		Monthly	
Customer	$m^3$	KR/m <sup>3</sup>	$m^3$	KR/m <sup>3</sup>	$m^3$	KR/m <sup>3</sup>	$m^3$	KR/m <sup>3</sup>
Domestic	>0	1,500	0–7	1,500	0–7	1,650	0–7	1,815
			8–15	1,650	8–15	1,815	8–15	1,997
			16–50	1,800	16–50	1,980	16–50	2,178
			50+	2,000	50+	2,200	50+	2,420

Cambodia has 25 provinces, including Phnom Penh, a special administrative area. Private companies (mainly small-scale providers) supply water to many unserved communities.

Non-domestic	>0	1,500	0–100	1,750	0–100	1,925	0–100	2,118
			101-200	1,850	101-200	2,035	101-200	2,239
			201-500	1,950	201-500	2,145	201-500	2,360
			500+	2,100	500+	2,310	500+	2,541
Overall Average		1,500		1,718		1,891		2,083

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: An tariff increase every 5 years to ensure sustainability, and a 4-band tariff structure to ensure affordability. Source: PWW and ADB consultant's estimates

4. **Kampong Cham – Water Supply.** The total combined capacity of the two existing WTPs is 19,500 m³/day, with 7,371 service connections (about 37% of the population served). The new 11,600 m³/day WTP will increase access to piped water to about 97% by 2022. After incurring losses of KR183 million in 2013, the PWW generated net income of KR178 million in 2014 and KR191 million in 2015. Financial projections indicate sustainability (Table 3).

Table 3: Kampong Cham Provincial Waterworks - Current and Projected Tariffs

	Yea	Year		Year 2020		Year 2025		Year 2030	
Customera	Monthly m <sup>3</sup>	KR/m <sup>3</sup>	Monthly m <sup>3</sup>	KR/m³	Monthly m <sup>3</sup>	KR/m³	Monthly m <sup>3</sup>	KR/m <sup>3</sup>	
	0–6	900	0–7	1,000	0–7	1,100	0–7	1,210	
Domestic	>6–15	1,250	8–15	1,350	8–15	1,485	8–15	1,634	
Domestic	15+	1,600	16–50	1,450	16–50	1,595	16–50	1,755	
			50+	1,650	50+	1,815	50+	1,997	
			0–100	1,500	0–100	1,650	0–100	1,815	
Non domostic	. 0	1,600	101-200	1,700	101200	1,870	101-200	2,057	
Non-domestic	>0		201-500	1,850	201-500	2,035	201-500	2,239	
			500+	1,950	500+	2,145	500+	2,360	
Overall									
Average		1,297		1,452		1,564		1,721	

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: A water tariff increase every 5 years to ensure sustainability, and a 4-band tariff structure similar to PPWSA and SRWSA to ensure affordability.

- 5. **Urban Sanitation in Cambodia.** The Ministry of Public Works and Transport (MPWT) through its General Department of Public Works and provincial departments (DPWTs) is responsible for urban sanitation. In Siem Reap and Sihanoukville, semi-autonomous agencies were set up to enable ring-fencing of fee collections. PWSSP will improve and expand septage management services and piped wastewater systems in four towns. MPWT expects to replicate in Battambang and Kapong Cham initiatives that have worked in Siem Reap and Sihanoukville, including enhancing and/or establishing a semi-autonomous agency to collect and ring-fence sanitation fees and a tiered-fee structure based on property classification and expected usage.<sup>2</sup> To accelerate new sewerage connections, it will offer free connections for households.
- 6. **Siem Reap Interceptor Sewer**. The pipeline of the existing interceptor sewer, commissioned in 2010, collapsed in 2011–2014 and is unable to function properly. The subproject will replace the failed sewer with the least-cost option (trenchless technology). In 2013, O&M costs were fully covered from fees collected; net profits earned in 2014 were KR23 million and KR11 million in 2015. A total of 539 properties (256 residential and 283 non-residential) are connected to the system. With the replacement, the project team estimates conservatively that about 73 more properties will be connected. Current and proposed fees are shown in Table 4,

<sup>2</sup> DPWTs do not record depreciation on their books, so references to profits below exclude depreciation.

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<sup>&</sup>lt;sup>a</sup> Currently, the same tariff applies for domestic and commercial; in 2020, 2025 and 2030, domestic refers to residential customers only, and non-domestic refers to commercial and government.

Source: PWW and ADB estimates.

and financial projections indicate sustainability assuming fees are reviewed and adjusted every 5 years (current practice) to cover O&M costs and ensure sustainability.

Table 4: Siem Reap Department of Public Works and Transportation – Current and Projected

Tariffs

	iui	1113			
Item	Current (year)	2020	2025	2030	
Sewer Fee (KR/per unit/month) a					
Domestic (average)	10,000	10,893	12,803	14,885	
Non-domestic (average)	100,000	108,935	128,026	148,848	
Desludging Fee (KR/per tank)					
Domestic	120,000	150,000	172,500	198,375	
Non-domestic	200,000	250,000	287,500	330,625	

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: A tariff increase every 5 years to ensure sustainability, and different tariffs for domestic and non-domestic accounts. <sup>a</sup> Residential fees of KR4,000–KR35,000/unit; non-residential fees of KR11,000–KR1,260,000/unit depending on property classification. Source: DPWT and ADB estimates.

7. **Sihanoukville–Wastewater System.** Of the existing 6,900 m³/day WWTP capacity, 5,900 m³/day was originally intended to serve 3,368 households, with the balance for the Cambrew factory. In reality, only approximately 3,000 m³/day is used for 1,767 households at [month] [year] (52% of original target), with the balance for Cambrew. Of the originally targeted households, 48% did not want to pay to connect to the system. DPWT owns only one vacuum truck. DPWT incurred losses of KR25 million in 2013 and KR20 million 2014 but earned net profits of KR101 million in 2015. The subproject will increase WWTP capacity to 20,500 m³/day and provide a new 6 m³ vacuum truck. DPWT will provide free connections to households, including to those not connected in the existing service area. Total households served will increase by 8,000 (43,680 persons) by 2023. Fees need to be reviewed and adjusted every 5 years to fully cover O&M costs and ensure sustainability without subsidies. Current and proposed fees to achieve sustainability are shown in Table 5.

Table 5: Sihanoukville Department of Public Works and Transportation – Current and Projected

	i ai ii i o		
Current	2020	2025	2030
5,200	6,500	7,475	8,596
25,000	31,250	35,938	41,328
0	7,500	8,625	9,919
120,000	150,000	172,500	198,375
200,000	250,000	287,500	330,625
	5,200 25,000 0 120,000	Current         2020           5,200         6,500           25,000         31,250           0         7,500           120,000         150,000	Current         2020         2025           5,200         6,500         7,475           25,000         31,250         35,938           0         7,500         8,625           120,000         150,000         172,500

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: A tariff increase every 5 years to ensure sustainability, and different tariffs for domestic and non-domestic accounts. 
<sup>a</sup> Residential fees of KR3,500–KR12,500/unit; non-residential fees of KR13,500–KR210,000/unit depending on property classification Source: DPWT and ADB estimates.

8. **Battambang – Wastewater System.** The existing WWTP was originally designed for 1,000 m³/day to serve 3,125 households, but it now operates at only 450 m³/day and serves 1,400 households. DPWT does not have a vacuum truck. The new 10,625 m³/day capacity WWTP and a new 6 m³ vacuum truck will serve an estimated additional 8,700 households (47,320 persons) by 2023. The project will provide free connections to households to accelerate new sewerage connections. DPWT incurred losses of KR3 million in 2014 but earned net profits of KR6 million in 2013 and KR16 million in 2015. Fees need to be reviewed and adjusted every 5 years to fully cover O&M costs and ensure sustainability. Table 6 shows current and proposed fees.

Table 6: Battambang DPWT - Current and Projected Tariffs

Item	Current	2020	2025	2030	
Sewer Fee (KR/m <sup>3</sup> of water usage)	100	135	149	163	
Disposal Fee (KR/per entry)	0	8,100	8,910	9,801	
Desludging Fee (KR/per tank)					
Domestic	120,000	162,000	178,200	196,020	
Non-domestic	200,000	270,000	297,000	326,700	

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: A tariff increase every 5 years to ensure sustainability, and different tariffs for domestic and non-domestic accounts. Source: DPWT and ADB estimates.

9. **Kampong Cham – Septage Treatment.** There is no reticulated wastewater collection system and septage treatment facility in Kampong Cham as of [month] [year]. DPWT does not own a vacuum truck. The subproject will provide a septage treatment facility and a 6 m³ vacuum truck. Fees will be introduced once the facilities and equipment are operational. Fees need to be reviewed and adjusted every 5 years to fully cover O&M costs and ensure sustainability as presented in Table 7.

Table 7: Kampong Cham - Current and Proposed Tariffs

			w p		
Item	Current	2020	2025	2030	
Disposal Fee (KR/per entry)	0	9,900	11,385	13,093	
Desludging Fee (KR/per tank)					
Domestic	0	198,000	227,700	261,855	
Non-domestic	0	330,000	379,500	436,425	

Provide list of all abbreviations used on the table in alphabetical order in this position.

Note: Key Assumptions: A tariff increase every 5 years to ensure sustainability, and different tariffs for domestic and non-domestic accounts.

Source: DPWT and ADB estimates.

10. **Affordability.** Many governments and international funding institutions have adopted an affordability benchmark for combined water and sanitation charges of 5% of monthly income of LIHs. The government will implement a tariff structure that ensures a lifeline tariff for water for the poor (7 m³ average monthly household consumption) together with sanitation fee will remain below 5% (4% for water and 1% for sanitation) of the average LIH monthly income. The affordability analysis is summarized in Table 8 and Table 9 summarizes historical and projected financial performance.

**Table 8: Tariff Affordability** 

		Current T	ariffs (KR)	2020 Tai	riffs (KR)	Ave. LIH	Ave.	Total Bill as % of
Province	Subproject	Domesti c <sup>a</sup>	Non- domestic	Domestic <sup>a</sup>	Non- domestic	Bill/ Month	LIH Income/ Month	Incom e/Mont h
Battambang	Water supply Wastewater system	1,500 100	1,500 100	1,650 135	1,850 135	12,590	618,719	2.0
Kampong Cham	Water supply Septage treatment	1,250 no facilities	1,600	1,280 3,300	1,625 5,500	11,330	602,443	1.9
Sihanoukville	Wastewater system	5,200	25,000	6,500	31,250	17,820	646,774	2.8
Siem Reap	Interceptor replaced	10,000	100,000	10,893	108,935	14,020	643,262	2.2

KR = Cambodian Riel; LIH = Low Income Household.

<sup>&</sup>lt;sup>a</sup> In Sihanoukville and Siem Reap, a wastewater fee is charged monthly per property, while in Battambang the wastewater fee is based on monthly water consumed; in Kampong Cham, the desludging fee is amortized over 60 months (i.e. 1/60 is paid each month)

Sources: Government of Cambodia. Cambodia Socio-economic Survey 2014. Phnom Penh and ADB estimates.

11. Loan Agreement Covenants. To enhance the sustainability of the water supply and the sanitation investments to be funded under the project, various financial and operational covenants have been discussed with the government, the executing agencies, and the implementing agencies and have been included in the loan agreement.

**Table 9: Historical and Projected Financial Performance** 

(KR million)

Internation	Actual <sup>a</sup> Projected								
Revenue	Item	2013		2015	2020		2030		
Revenue	Battambang PWW								
O&M Expenses         3,570         3,560         3,893         7,031         16,735         27,403           Depreciation         914         1,002         1,079         1,047         4,300         3,253           Finance & Other Charges         0         -21         -328         21         39         61           Tax         0         0         0         0         574         592         1,421           Net Profit (Loss)         -236         428         1,106         2,295         2,370         5,684           Depreciation Recovered (%)         74%         100%         100%         100%         100%         100%           Internal Cash Generated         679         1,430         2,185         3,916         7,262         10,358           Debt Service Payment         0 </td <td></td> <td>4,249</td> <td>4,969</td> <td>5,751</td> <td>10,968</td> <td>24,036</td> <td>37,822</td>		4,249	4,969	5,751	10,968	24,036	37,822		
Depreciation	O&M Expenses					16,735			
Finance & Other Charges									
Tax         0         0         0         574         592         1,421           Net Profit (Loss)         -236         428         1,106         2,295         2,370         5,684           Depreciation Recovered (%)         74%         100%         100%         100%         100%           Internal Cash Generated         679         1,430         2,185         3,916         7,262         10,358           Debt Service Payment         0         0         0         0         0         0         0           Total Assets         13,694         16,643         17,452         186,671         190,938         207,314           Total Liabilities         1,016         1,283         709         1,182         1,508         1,925           Total Equity         12,678         15,360         16,743         185,490         189,475         205,390           Kampong Cham         W         12,678         15,360         16,743         185,490         189,475         205,390           Kampong Cham         W         12,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,80         6,872 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Net Profit (Loss)		0							
Depreciation Recovered (%)   74%   100%   100%   100%   100%   100%   Internal Cash Generated   679   1,430   2,185   3,916   7,262   10,358   201,3518   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   3,916   7,262   10,358   1,925   10,1016   1,283   709   1,182   1,508   1,925   1,921   1,508   1,925   1,921   1,508   1,925   1,921   1,921   1,508   1,925   1,921   1,921   1,508   1,925   1,921   1	Net Profit (Loss)	-236	428	1.106					
Internal Cash Generated									
Debt Service Payment         0         1         12         20         20         3         1									
Total Assets         13,694         16,643         17,452         186,671         190,983         207,314           Total Liabilities         1,016         1,283         709         1,182         1,508         1,925           Total Equity         12,678         15,360         16,743         185,490         189,475         205,390           Kampong Cham PWW         2,117         2,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Total Liabilities         1,016         1,283         709         1,182         1,508         1,925           Total Equity         12,678         15,360         16,743         185,490         189,475         205,390           Kampong Cham PWW         Revenue         2,117         2,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,723           Finance & Other Charges         0         0         0         55         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%           Internal Cash Generated         298         576         608         2,540         4,355         4,369           Debt Service Payment         0         0         0         0         0									
Total Equity         12,678         15,360         16,743         185,490         189,475         205,390           Kampong Cham PWW         Revenue         2,117         2,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%									
Kampong Cham PWW           Revenue         2,117         2,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%<									
Revenue         2,117         2,370         2,535         5,927         11,238         13,910           O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%           Internal Cash Generated         298         576         608         2,540         4,355         4,369           Debt Service Payment         0         0         0         0         0         0         0         0           Total Assets         9,859         9,863         10,062         72,913         79,450         88,179           Total Equity         9,600         9,834         10,025         72,895         79,427         88,150		,	,	,	,	,			
O&M Expenses         1,819         1,795         1,932         3,380         6,872         9,528           Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%		2.117	2.370	2.535	5.927	11.238	13.910		
Depreciation         481         398         416         555         1,720         1,720           Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         1									
Finance & Other Charges         0         0         -5         7         11         13           Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%           Internal Cash Generated         298         576         608         2,540         4,355         4,369           Debt Service Payment         0         0         0         0         0         0         0           Total Assets         9,859         9,863         10,062         72,913         79,450         88,179           Total Liabilities         260         29         36         18         23         29           Total Equity         9,600         9,834         10,025         72,895         79,427         88,150           Battambang DPWT         Revenue         32         43         51         59         738         898           0&M Expenses         26         46         35         40         661         790									
Tax         0         0         0         397         527         530           Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%           Internal Cash Generated         298         576         608         2,540         4,355         4,369           Debt Service Payment         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Net Profit (Loss)         -183         178         191         1,588         2,108         2,119           Depreciation Recovered (%)         62%         100%         100%         100%         100%         100%           Internal Cash Generated         298         576         608         2,540         4,355         4,369           Debt Service Payment         0         1,632         1,921         0         0         0         0 <t< td=""><td></td><td>_</td><td>_</td><td>_</td><td></td><td></td><td>_</td></t<>		_	_	_			_		
Depreciation Recovered (%)									
Internal Cash Generated   298   576   608   2,540   4,355   4,369   1,000									
Debt Service Payment         0         0         0         0         0         0           Total Assets         9,859         9,863         10,062         72,913         79,450         88,179           Total Liabilities         260         29         36         18         23         29           Total Equity         9,600         9,834         10,025         72,895         79,427         88,150           Battambang DPWT           Revenue         32         43         51         59         738         898           0&M Expenses         26         46         35         40         661         790           Net Profit (Loss)         6         -3         16         18         77         109           Sihanoukville DPWT           Revenue         241         352         385         446         1,632         1,921           0&M Expenses         266         372         284         329         1,280         1,635           Net Profit (Loss)         -25         -20         101         117         352         286           Kampong Cham DPWT           Revenue         0         0									
Total Assets         9,859         9,863         10,062         72,913         79,450         88,179           Total Liabilities         260         29         36         18         23         29           Total Equity         9,600         9,834         10,025         72,895         79,427         88,150           Battambang DPWT           Revenue         32         43         51         59         738         898           0&M Expenses         26         46         35         40         661         790           Net Profit (Loss)         6         -3         16         18         77         109           Sihanoukville DPWT         Revenue         241         352         385         446         1,632         1,921           0&M Expenses         266         372         284         329         1,280         1,635           Net Profit (Loss)         -25         -20         101         117         352         286           Kampong Cham DPWT b         Revenue         0         0         0         0         150         172           O&M Expenses         0         0         0         0									
Total Liabilities         260         29         36         18         23         29           Total Equity         9,600         9,834         10,025         72,895         79,427         88,150           Battambang DPWT           Revenue         32         43         51         59         738         898           0&M Expenses         26         46         35         40         661         790           Net Profit (Loss)         6         -3         16         18         77         109           Sihanoukville DPWT           Revenue         241         352         385         446         1,632         1,921           0&M Expenses         266         372         284         329         1,280         1,635           Net Profit (Loss)         -25         -20         101         117         352         286           Kampong Cham DPWT b         8         0         0         0         150         172           0&M Expenses         0         0         0         0         132         153           Net Profit (Loss)         0         0         0         0         18         19	<del>-</del>	~	_	_	-		_		
Total Equity         9,600         9,834         10,025         72,895         79,427         88,150           Battambang DPWT           Revenue         32         43         51         59         738         898           O&M Expenses         26         46         35         40         661         790           Net Profit (Loss)         6         -3         16         18         77         109           Sihanoukville DPWT           Revenue         241         352         385         446         1,632         1,921           O&M Expenses         266         372         284         329         1,280         1,635           Net Profit (Loss)         -25         -20         101         117         352         286           Kampong Cham DPWT b           Revenue         0         0         0         150         172           O&M Expenses         0         0         0         132         153           Net Profit (Loss)         0         0         0         18         19           Siem Reap DPWT         276         272         289         525         617         717			•				•		
Battambang DPWT         Revenue       32       43       51       59       738       898         O&M Expenses       26       46       35       40       661       790         Net Profit (Loss)       6       -3       16       18       77       109         Sihanoukville DPWT         Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWTb       8       898       898       898       898       898       1,921       109       1632       1,921       109       1632       1,921       108       1,632       1,921       108       1,632       1,921       1,635									
Revenue       32       43       51       59       738       898         O&M Expenses       26       46       35       40       661       790         Net Profit (Loss)       6       -3       16       18       77       109         Sihanoukville DPWT         Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT <sup>b</sup> 8       898 <td></td> <td>0,000</td> <td>0,00</td> <td>. 0,020</td> <td>,000</td> <td>. 0,</td> <td>00,.00</td>		0,000	0,00	. 0,020	,000	. 0,	00,.00		
O&M Expenses       26       46       35       40       661       790         Net Profit (Loss)       6       -3       16       18       77       109         Sihanoukville DPWT         Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT b         Revenue       0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT       8       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652	_	32	43	51	59	738	898		
Net Profit (Loss)       6       -3       16       18       77       109         Sihanoukville DPWT         Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT b       8       8       8       8       8       8       8       9       172       172       172       172       172       172       173       174 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Sihanoukville DPWT         Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT <sup>b</sup> Revenue       0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT         Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652			_		_				
Revenue       241       352       385       446       1,632       1,921         O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWTb       Revenue         0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT         Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652		· ·	Ü	10	10		100		
O&M Expenses       266       372       284       329       1,280       1,635         Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT b         Revenue         0       0       0       0       150       172         0&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT         Revenue       276       272       289       525       617       717         0&M Expenses       276       249       278       477       561       652		241	352	385	446	1 632	1 921		
Net Profit (Loss)       -25       -20       101       117       352       286         Kampong Cham DPWT b       Revenue         Revenue       0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT       Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652									
Kampong Cham DPWT b         Revenue       0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT         Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652									
Revenue       0       0       0       0       150       172         O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT       Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652		20	20	101		002	200		
O&M Expenses       0       0       0       0       132       153         Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT       Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652		0	0	0	0	150	172		
Net Profit (Loss)       0       0       0       0       18       19         Siem Reap DPWT       Revenue       276       272       289       525       617       717         O&M Expenses       276       249       278       477       561       652									
Siem Reap DPWT           Revenue         276         272         289         525         617         717           O&M Expenses         276         249         278         477         561         652									
Revenue 276 272 289 525 617 717 O&M Expenses 276 249 278 477 561 652		0	J	J	0	10	13		
O&M Expenses 276 249 278 477 561 652		276	272	289	525	617	717		
Net Protit (Loss) () 23 11 48 56 66	Net Profit (Loss)	0	23	11	48	56	66		

Provide list of all abbreviations used on the table in alphabetical order in this position.

Source: PWWs, DPWTs and PPTA consultant's estimates.

<sup>&</sup>lt;sup>b</sup> In Sihanoukville and Siem Reap, the monthly bill also includes expected water charges, assuming 7 m<sup>3</sup> of water consumed monthly calculated with the expected lifeline tariff for water and lowest wastewater/sanitation fee.

DPWTs do not record depreciation in their accounts; balance sheet accounts specific for wastewater and sanitation operations only are unavailable as the DPWTs combine them with the whole department's operations.

b No sanitation fees are being collected presently by Kampong Cham DPWT as the department does not provide wastewater and sanitation