ANNEX-4. Household affordability of projected DWASA tariff for metered domestic connections

	Unit	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2020	2025	2030	2035	2040	2045	2050
Serviced area																		
Average HH income in serviced area	BDT	360,588	367,800	375,156	382,659	390,312	398,118	406,081	414,202	422,486	430,936	475,788	525,309	579,983	640,348	706,996	780,581	861,824
Income growth (index)	index	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.20	1.32	1.46	1.61	1.78	1.96	2.16	2.39
Income available for water & sewerage service	%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
Water tariff part of combined W&S tariff	%	75.00%	74.00%	73.00%	72.00%	71.00%	70.00%	69.00%	68.00%	67.00%	66.00%	61.00%	56.00%	51.00%	46.00%	41.00%	36.00%	33.40%
Income affordable for water service	%	3.38%	3.33%	3.29%	3.24%	3.20%	3.15%	3.11%	3.06%	3.02%	2.97%	2.75%	2.52%	2.30%	2.07%	1.85%	1.62%	1.50%
Per capita consumption	lcd	150	148	146	144	142	140	138	136	134	132	130						
Metered unit household consumption	m3/HH	273.8	270.1	266.5	262.8	259.2	255.5	251.9	248.2	244.6	240.9	237.3	210.2	210.2	210.2	210.2	210.2	210.2
Affordable tariff	BDT/m3	44.5	45.3	46.3	47.2	48.1	49.1	50.1	51.1	52.1	53.1	55.0						
DWASA tariff	BDT/m3	5.38	5.38	5.34	5.95	6.46	7.81	7.77	9.64	14.05	13.21	14.23	13.71	12.17	11.79	11.35	9.78	9.97
DWASA billed cost of water consumption	BDT	1,473	1,453	1,423	1,564	1,674	1,995	1,957	2,393	3,436	3,182	3,376	2,882	2,558	2,478	2,386	2,056	2,096
Income part to be spend on water	%	0.41%	0.40%	0.38%	0.41%	0.43%	0.50%	0.48%	0.58%	0.81%	0.74%	0.71%	0.55%	0.44%	0.39%	0.34%	0.26%	0.24%
Water spending part of affordable income	%	12.10%	11.86%	11.55%	12.61%	13.42%	15.91%	15.52%	18.88%	26.97%	24.86%	25.85%	21.77%	19.22%	18.70%	18.29%	16.26%	16.18%
Actual spending on W&S service	BDT	16,308																
Actual water spending part of income	%	4.52%																
Un-served area																		
Average HH income in un-served area	BDT	79,992	81,592	83,224	84,888	86,586	88,318	90,084	91,886	93,723	95,598	105,548	116,533	128,662	142,053	156,838	173,162	191,185
Income growth (index)	index	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.20	1.32	1.46	1.61	1.78	1.96	2.16	2.39
Income available for water & sewerage service	%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
Water tariff part of combined W&S tariff	%	75.00%	74.00%	73.00%	72.00%	71.00%	70.00%	69.00%	68.00%	67.00%	66.00%	61.00%	56.00%	51.00%	46.00%	41.00%	36.00%	33.40%
Income affordable for water service	%	3.38%	3.33%	3.29%	3.24%	3.20%	3.15%	3.11%	3.06%	3.02%	2.97%	2.75%	2.52%	2.30%	2.07%	1.85%	1.62%	1.50%
Per capita consumption	lcd	30	31	32	33	34	35	36	37	38	39	40						
Metered unit household consumption	m3/HH	54.8	56.6	58.4	60.2	62.1	63.9	65.7	67.5	69.4	71.2	73.0	210.2	210.2	210.2	210.2	210.2	210.2
Affordable tariff	BDT/m3	49.3	48.0	46.8	45.7	44.6	43.6	42.6	41.6	40.7	39.9	39.7						
Metered unit household consumption	m3/HH	198.7	198.7	198.7	214.7	230.7	246.7	262.8	262.8	262.8	262.8	236.5	210.2	210.2	210.2	210.2	210.2	210.2
DWASA tariff	BDT/m3	5.38	5.38	5.34	5.95	6.46	7.81	7.77	9.64	14.05	13.21	14.23	13.71	12.17	11.79	11.35	9.78	9.97
DWASA billed cost of water consumption	BDT	1,069	1,069	1,061	1,277	1,490	1,927	2,042	2,533	3,692	3,472	3,365	2,882	2,558	2,478	2,386	2,056	2,096
Income part to be spend on water	%	1.34%	1.31%	1.27%	1.50%	1.72%	2.18%	2.27%	2.76%	3.94%	3.63%	3.19%	2.47%	1.99%	1.74%	1.52%	1.19%	1.10%
Water spending part of affordable income	%	39.60%	39.34%	38.81%	46.45%	53.87%	69.26%	73.00%	90.10%	130.67%	122.27%	116.16%	98.13%	86.63%	84.28%	82.45%	73.28%	72.93%
Actual spending on W&S service	BDT	600																
Actual water spending part of income	%	0.75%																
Slum part of un-served area																		
Average HH income in un-served slum area	BDT	65,772	67,087	68,429	69,798	71,194	72,618	74,070	75,551	77,062	78,604	86,785	95,817	105,790	116,801	128,958	142,380	157,199
Income growth (index)	index	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.20	1.32	1.46	1.61	1.78	1.96	2.16	2.39
Income available for water & sewerage service	%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
Water tariff part of combined W&S tariff	%	75.00%	74.00%	73.00%	72.00%	71.00%	70.00%	69.00%	68.00%	67.00%	66.00%	61.00%	56.00%	51.00%	46.00%	41.00%	36.00%	33.40%
Income affordable for water service	%	3.38%	3.33%	3.29%	3.24%	3.20%	3.15%	3.11%	3.06%	3.02%	2.97%	2.75%	2.52%	2.30%	2.07%	1.85%	1.62%	1.50%
Per capita consumption	lcd	30	31	32	33	34	35	36	37	38	39	40						
Metered unit household consumption	m3/HH	54.8	56.6	58.4	60.2	62.1	63.9	65.7	67.5	69.4	71.2	73.0	210.2	210.2	210.2	210.2	210.2	210.2
Affordable tariff	BDT/m3	40.5	39.5	38.5	37.5	36.7	35.8	35.0	34.2	33.5	32.8	32.6						
Metered unit household consumption	m3/HH	198.7	198.7	198.7	214.7	230.7	246.7	262.8	262.8	262.8	262.8	236.5	210.2	210.2	210.2	210.2	210.2	210.2
DWASA tariff	BDT/m3	5.38	5.38	5.34	5.95	6.46	7.81	7.77	9.64	14.05	13.21	14.23	13.71	12.17	11.79	11.35	9.78	9.97
DWASA billed cost of water consumption	BDT	1,069	1,069	1,061	1,277	1,490	1,927	2,042	2,533	3,692	3,472	3,365	2,882	2,558	2,478	2,386	2,056	2,096
Income part to be spend on water	%	1.63%	1.59%	1.55%	1.83%	2.09%	2.65%	2.76%	3.35%	4.79%	4.42%	3.88%	3.01%	2.42%	2.12%	1.85%	1.44%	1.33%
Water spending part of affordable income	%	48.16%	47.85%	47.20%	56.49%	65.52%	84.23%	88.79%	109.58%	158.92%	148.71%	141.27%	119.35%	105.36%	102.50%	100.27%	89.13%	88.70%
Actual spending on W&S service	BDT	720																
Actual water spending part of income	%	1.09%																