Chattogram Water Supply & Sewerage Authority Monthly MIS Report April 2019

April 2019									
		Unit	This month	Year to date	Previous	This	Evaluation	Remarks	*3
					year	year	*2	++	Too good
					actual	target *1		!	Very bad
Select	ed Key Indicators								
E 17*	Non Revenue Water	%	30	24	25	20	-20%		
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl	%	101	92	87	95	7%		
D 9*	Collection period	Day	264	284	288	180	-58%	!	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	10.0	N/A	10.9	10.0	0%		
D 8*	Operating Ratio	Ratio	0.68	0.74	0.89	0.90	18%		
A 3.5*	Functioning meter rate of installed meter	%	85	N/A	84	100	-15%		
E 19	Water quality sample	No./month	95	950	1,080	1,140	-92%	!	
E 18*	Leakage occurrence	No./km/mth	0.55	0.55	0.43	0.52	-5%		
A 6*	Water supply coverage	%	57	N/A	55	65	-13%		
B 5*	Average tariff	Tk/m3	12.77	12.07	11.88	12.56	2%		
E 16*	Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.)	Tk/m3	8.09	8.66	10.06	9.90	13%		
A) Conr	nection data								
A 1	Total registered connections	Nos.	73,884	N/A	70,238	71,500	3%		
A 1.1	Billable (non-disconnected) connection	Nos.	68,368	N/A	64,793	67,500	1%		
A 1.2	Non-billable (disconnected) connection	Nos.	5,516	N/A	5,445	4000	-38%	!	
A 1.3	Billed connection	Nos.	66,534	N/A	62,703	67,000	-1%		
A 2	Breakdown of billable connection (by customer type)								
A 2.1*	Domestic	%	97	N/A	96	94	3%		
A 2.2	Non-domestic	%	3	N/A	4	6	44%	++	
A 3	Breakdown of billable connection (by meter status)								
A 3.1	Metered	Nos.	57,788	N/A	53,702	60,000	-4%		
A 3.2	Average reading	Nos.	10,239	N/A	10,589	7,000	-46%	!	
A 3.3	Non meter	Nos.	341	N/A	502	500	32%	++	
A 3.4*	Meter installation rate	%	100	N/A	99	99	0%		
A 3.5*	Functioning meter rate of installed meter	%	85	N/A	84	100	-15%		
A 4	Street Hydrant	Nos.	689	N/A	689	689	0%		
A 5	Religious Institutions	Nos.	368	N/A	368	368	0%		
A 6*	Water supply coverage	%	57	N/A	55	65	-13%		
A 7	Bill sent-out ratio	%	97	N/A	97	100	-3%		

		Unit	This month	Year to date	Previous	This	Evaluation	1	
					year	year	*2	++	Too good
D) Toxif					actual	target *1		!	Very bad
B) Tarif	Domestic	Tl _t /m2	0.00	NI/A	0.45	0.02	00/		
B 1	Non-domestic	Tk/m3 Tk/m3	9.92 27.56	N/A N/A	9.45 26.25	9.92 27.56	0% 0%		
B 2		Tk/m3	9.92	N/A N/A	26.25 9.45	9.92	0%		
B 3	Street Hydrant						1		
B 4 B 5*	Religious Institutions	Tk/m3 Tk/m3	9.92 12.77	N/A 12.07	9.45	9.92 12.56	0% 2%		
	Average tariff	TK/III3	12.77	12.07	11.88	12.50	2%		
C) Billill	g and Collection	Tk	04 002 407	905 090 111	025 110 950	1.055.240.000	2%		
C 1.1*	Total billing Private	Tk	94,883,487	895,080,111	925,119,859	1,055,240,000	-7%		
C 1.1		Tk	80,926,731	766,875,615	766,652,954	994,600,000	1	l	
	Government	ML	13,956,756	128,204,496	158,466,905	60,640,000	154% 6%	++	
C 2 C 3	Billed volume Total collection	Tk	7,430	74,141	77,871	84,000	-1%		
C 3.1*	Private	Tk	96,271,790 86,075,191	822,273,546	804,527,951 709,270,366	1,000,000,000	-1%		
C 3.1		Tk	10,196,599	745,381,301	· · · · ·	i i			
C 3.2	Government	1 K %	10,196,599	76,892,245 92	95,257,585 87	100,000,000	-8% 7%		
	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill. Private	% %		92	93	95 90	18%		
C 4.1* C 4.2*	Government	% %	106			165	-56%	١,	
	ncial data	70	73	60	60	100	-50%	:	
D) Filia D 1	Revenue (Total)	Tk	122,796,784	1,062,922,184	1,075,780,243	1,255,000,000	2%		
D 1.1	Water revenue	Tk	96,271,790	822,273,546	803,923,951	980,000,000	1%		
D 1.1 D 1.2*	Tubewell license	Tk	12,721,082	112,032,290	124,736,293	80,000,000	68%	١	
D 1.2 D 1.3*	Other operating revenues	Tk	5,887,246	49,449,682	52,120,007	100,000,000	-41%	++	
D 1.3	Interest income	Tk	7,916,667	79,166,667	94,999,992	95,000,000	0%		
D 1.4 D 2		Tk	85,690,803	845,707,467	1,047,696,985	1,040,000,000	2%		
D 2.1*	Expenses (Total) Personnel cost	Tk	33,288,803	315,768,717	384,522,985	300,000,000	-26%	١,	
D 2.1	Electricity cost	Tk	37,863,000	379,851,000	420,229,000	500,000,000	9%	·	
D 2.2	Chemicals	Tk	8,758,000	37,572,000	60,392,000	100,000,000	55%	++	
D 2.3*	Depreciation	Tk	0,738,000	53,133,750	66,148,000	80,000,000	-6%		
D 2.4	Other operating cost	Tk	5,781,000	59,382,000	116,405,000	60,000,000	-19%		
D 2.5.1	•	Tk	3,845,000	50,465,000	87,769,000	N/A	-1976		
D 2.5.2		Tk	1,936,000	8,917,000	28,636,000	N/A			
D 2.5.2	Financial expense	Tk	1,930,000 0	0,317,000	20,030,000 N	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	37,105,981	217,214,717	28,083,258	215,000,000	21%	ן #טועיל! 	
D 3*	Cash at bank	Tk	07,100,901	N/A	20,003,230 n	Λ	N/A		
D 5*	Stock & stores	Tk	0	0	0		N/A		
D 6	Accounts Receivable	Tk	835,550,469	N/A	730,082,144	75,000,000	-1014%	,	
D 6.1*	Accounts receivable from Government	Tk	174,852,387	N/A	134,213,003	15,000,000	-1066%	;	
D 6.1	Accounts receivable from Private	Tk	660,698,082	N/A N/A	595,869,141	60,000,000	-1000%	;	
D 0.2 D 7*	Long term loans	Tk	000,098,082	N/A N/A	095,669,141	0	#DIV/0!	#DIV/0!	
D 8*	Operating Ratio	Ratio	0.68	0.74	0.89	0.90	18%	ן #טועיל! 	
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		Unit	This month	Year to date	Previous	This		luation Remarks *3	
					year	year	*2	++	Too good
E) Water	Cupply				actual	target *1		!	Very bad
E 3	Capacity of Surface WTP (Mohora+Sk.H.WTP+Moduna Gh	MLD	323	N/A	233	310	4%		
E 4	Capacity of Ground WTP	MLD	68	N/A	68	68	-1%		
E 5	Deep Tube Wells in Operation	Nos.	40	N/A N/A	76	38	5%		
E 6*	·	MLD	40	N/A N/A	28		896%	l	
	Capacity of DTW - direct distribution	1 1				· '		++	
	Capacity of DTW - supply to GWTP	MLD	8	N/A	42	41	-80%	!	
E 8*	Capacity of distributable water production	MLD	430	N/A	329	382	13%		
E 9	Length of Pipeline	km	768	N/A	766	920	-17%		
E 15*	Production (distributable water)	ML	10,597	97,610	104,146	105,000	12%		
E 15.1*	DTW water to users before boosters	ML	0	0	0	0	N/A		
E 16*	Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.)	Tk/m3	8.09	8.66	10.06	9.90	13%		
E 17*	Non Revenue Water	%	30	24	25	20	-20%		
E 18*	8	No./km/mth		0.55	0.43	0.52	-5%		
E 19	Water quality sample	No./month		950	1,080	1,140	-92%	!	
E 20*	Satisfactory sample in chlorine level	%	100	100	100	100	0%		
E 21*	Satisfactory sample in microbiological level	%	100	100	100	100	0%		
F) Perso	F) Personnel								
F 1	No. of permanent employees (Total)	Nos.	687	N/A	705	813	15%		
F 1.1	Grade-3-9	Nos.	64	N/A	69	N/A	N/A	++	
F 1.2	Grade-10-11	Nos.	57	N/A	49	N/A	N/A	++	
F 1.3	Grade-12-16	Nos.	309	N/A	317	N/A	N/A	++	
F 1.4	Grade-17-20	Nos.	257	N/A	270	N/A	N/A	++	
F 5	No. of non-permanent employees (Total)	Nos.	0	N/A	0	0	#DIV/0!	#DIV/0!	
F 5.1	Work charge (6 month contract worker)	Nos.	0	N/A	0	0	N/A	++	
F 5.2	Master roll (Daily basis casual worker)	Nos.	0	N/A	0	0	N/A	++	
F 5.3	Project staff (hired by project budget)	Nos.	32	N/A	32	N/A	N/A	++	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	10.0	N/A	10.9	10.0	0%		
F 3	Average Monthly Salary	Tk	24,347	N/A	16,208	26,000	6%		
F 4*	% of Overtime to Basic Salary	%	40	N/A	42	35	-13%		
G) Custo	omer Services								
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	398	3,228	4,057	5,000	-23%		
G 1.2	Service Connection given	Nos.	360	3,059	3,846	4,000	-8%		
G 2	Billing complaints			2,200	5,5.5	1,300			
G 2.1	Complaints received	Nos.	340	3,350	3,551	4,500	11%		
G 2.2	Complaints acted on	Nos.	320	2,988	2,845	3,500	-2%		
	•	1 1		· ·	•	·	1	1	
G 3	Leakage complaints received and attended	Nos.	419	4,189	3,942	4,000	-26%	!	

Notes:

N/A = not applicable (= pointless to calculate, or nonexistent)

Some numbers may show the same value in spite of different values, which is due to rounding.

- *1: "this year target" can be set according to (1) Business Plan, (2) Performance Agreement, (3) discussion with D M D (Engineering), (same or modified value of previous year)
- *2: Evaluation is made on the basis of variance from the set target. An evaluation result "X %" means that performance of particular indicator is X % better than what is set as the target. if the NRW is 24% and the target is 20%, this performance is considered unfavorable. The evaluation result is shown as -20% (= 1 24 / 20).
 - If the number of water quality sample is recorded as 24 when the target is set at 20, this performance can be considered favorable. The evaluation result is shown as 20% (= 24 / 20 1).
- *3: A warning sign " ++ " appears when the evaluation result exceeds 25%, which is considered as the high-end threshold indicating "too good".
- A warning sign "!" appears when the evaluation result is less than 25%, which is considered as the low-end threshold indicating "very bad".
- A2.1: If the total number of billable connections is 45,000 and the number of domestic connections in billable connections is 36,000, this will be 80% (= 36000 / 45000).
- A3.4: Meter installation rate = 1 (number of non-meter connection / number of billable connection).
- A6*: Water Supply Coverage=(Billed Connection x 26 Person per Connection + Total Street Hydrant x 80 Person per Street Hydrant) / Total Population in Water Supply Area *100.
- A7: Bill sent-out ratio = Billed connection / Billable connection x 100.
- B5: Average water tariff = total billing / total billed volume
- C1.1: "Private" includes private customers and users of loose water (sold by bowser)
- C1.2: "Government" includes government users, street hydrants and religious institutions
- C3.1: Same as C1.1
- C3.2: Same as C1.2
- C4: Revenue collection efficiency = collection /billing x 100. CWASA's existing accounting system cannot classify accounts receivable by age.
 - Therefore the revenue collection efficiency can be shown merely as (total collection during a period ÷ total billing during the same period).
- C4.1: Same as C4
- C4.2: Same as C4
- C5: Metered volume to billed volume ratio data currently becomes available twice a year due to capacity limitation of computer section.
- D1.2: "License and renewal fee of tubewell" in "other operating revenue"
- D1.3: Excludes "License and renewal fee of tubewell
- D1.4: As the interest income is not obtainable until the year end, a proxy value is used here so that the net income can be computed. The proxy value is the previous year's monthly interest.
- D2.1: Includes salary & allowances, provident fund, gratuity, festival bonus, overtime and earn leave encashment
- D2.4: Data is only available quarterly instead of monthly. The cost of the latest three month is converted to a monthly average and shown in the monthly data column.
- D2.6: Data is only available guarterly instead of monthly. The cost of the latest three month is converted to a monthly average and shown in the monthly data column.
- D4: Under the current system, this value is not obtainable until the year end. However it is expected to become obtainable monthly in the future.
- D5: Under the current system, this value is not obtainable until the year end. However it is expected to become obtainable monthly in the future.
- D6.1: Same as C1.1
- D6.2: Same as C1.2
- D7: Long term liabilities outstanding as unpaid at the end of month
- D8: To see more clearly the CWASA capacity to generate the operating profit before depreciation and interest,
 - the operating ratio is defined as (personnel cost + elec. cost + chemical cost + other O & M) / (total Revenues).
- D9: Collection period = (accounts receivable) / (monthly billings/number of days in month)
- E6: Production capacity of deep tube wells that supply water directly to users
- E7: Production capacity of deep tube wells that supply water to Karulgaht WTP
- E15: Distributable water (or system input water) = Water produced at Surface WTP + Water produced at Ground WTP + Water directly distributed from DTW
- E15.1: Raw water distributed directly to users from some DTWs on the way to boosters are not included in the distributable water (E15).
- E16: Unit production cost =Expenses(Total)/((Dstributable Water Volume+DTW Water directly distributed)*1000)
- E17: NRW = (unbilled water / water produced x 100) = [1 billed water / (distributable water production + DTW Water directly distributed)] x 100
- E18: Leakage occurrence = Number of leakage recognized by complaint / length of pipeline at the end of period / number of months covered
- E20: This is the rate of satisfactory sample complying with the chlorine standard.
- E21: This is the rate of satisfactory sample complying with the microbiological standard.
- F2: No. of employee per 1000 connections = (number of permanent staff + non-permanent staff) / (total billable connections/1000)
- F4: Only staff workers (Class 3 and Class 4) receive overtime. Thus this ratio is computed based on Class 3 and Class 4 workers' pay.