Chattogram Water Supply & Sewerage Authority Monthly MIS Report June 2019

			June 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	%	28	25	25	20	-24%		
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl	%	85	92	87	95	-10%		
D 9*	Collection period	Day	261	289	288	180	-61%	!	
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	1.19	0.81	0.89	0.90	10%		
A 3.5*	Functioning meter rate of installed meter	%	84	N/A	84	100	-16%		
E 19	Water quality sample	No./month	95	1,140	1,080	1,140	-92%	!	
E 18*	Leakage occurrence	No./km/mth	0.57	0.55	0.43	0.52	-6%		
A 6*	Water supply coverage	%	57	N/A	55	65	-12%		
B 5*	Average tariff	Tk/m3	12.84	12.13	11.88	12.56	2%		
E 16*	Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.)	Tk/m3	19.03	9.93	10.06	9.90	0%		
A) Conr	nection data								
A 1	Total registered connections	Nos.	74,330	N/A	70,238	71,500	4%		
A 1.1	Billable (non-disconnected) connection	Nos.	68,798	N/A	64,793	67,500	2%		
A 1.2	Non-billable (disconnected) connection	Nos.	5,532	N/A	5,445	4000	-38%	!	
A 1.3	Billed connection	Nos.	67,027	N/A	62,703	67,000	0%		
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	45%	++	
A 3	Breakdown of billable connection (by meter status)								
A 3.1	Metered	Nos.	57,885	N/A	53,702	60,000	-4%		
A 3.2	Average reading	Nos.	10,635	N/A	10,589	7,000	-52%	!	
A 3.3	Non meter	Nos.	278	N/A	502	500	44%	++	
A 3.4*	Meter installation rate	%	100	N/A	99	99	0%		
A 3.5*	Functioning meter rate of installed meter	%	84	N/A	84	100	-16%		
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	-12%		
A 7	Bill sent-out ratio	%	97	N/A	97	100	-3%		

		Unit	This month	Year to date	Previous	This		Remarks *	
					year	year	*2	++	Too good
D) Towiff					actual	target *1		!	Very bad
B) Tariff		Tl _e /m2	0.02	NI/A	0.45	0.02	00/		
B 1	Domestic Non-domestic	Tk/m3	9.92	N/A	9.45	9.92	0%		
B 2	Non-domestic	Tk/m3	27.56	N/A	26.25	27.56	0%		
B 3	Street Hydrant	Tk/m3	9.92	N/A	9.45	9.92	0%		
B 4	Religious Institutions	Tk/m3	9.92	N/A	9.45	9.92	0%		
B 5*	Average tariff	Tk/m3	12.84	12.13	11.88	12.56	2%		
,	g and Collection	TI.	00 004 050	4 007 000 050	005 440 050	4 055 040 000	20/		
C 1	Total billing	Tk	98,891,359	1,087,980,059	925,119,859	1,055,240,000	3%		
C 1.1*	Private	Tk	83,845,921	930,097,500	766,652,954	994,600,000	-6%		
C 1.2*	Government	Tk	15,045,438	157,882,559	158,466,905	60,640,000	160%	++	
C 2	Billed volume	ML	7,702	89,712	77,871	84,000	7%		
C 3	Total collection	Tk	83,900,997	996,216,692	804,527,951	1,000,000,000	0%		
C 3.1*	Private	Tk	70,535,863	897,774,626	709,270,366	900,000,000	0%		
C 3.2*	Government	Tk	13,365,134	98,442,066	95,257,585	100,000,000	-2%		
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	85	92	87	95	-10%		
C 4.1*	Private	%	84	97	93	90	-7%	_	
C 4.2*	Government	%	89	62	60	165	-46%	!	
D) Finan									
D 1	Revenue (Total)	Tk	99,296,907	1,274,507,887	1,075,780,243	1,255,000,000	2%		
D 1.1	Water revenue	Tk	83,900,997	996,216,692	803,923,951	980,000,000	2%		
D 1.2*	Tubewell license	Tk	3,495,528	122,330,008	124,736,293	80,000,000	53%	++	
D 1.3*	Other operating revenues	Tk	3,983,716	60,961,187	52,120,007	100,000,000	-39%	!	
D 1.4*	Interest income	Tk	7,916,667	95,000,000	94,999,992	95,000,000	0%		
D 2	Expenses (Total)	Tk	202,992,876	1,183,745,705	1,047,696,985	1,040,000,000	-14%		
D 2.1*	Personnel cost	Tk	33,571,626	401,499,705	384,522,985	300,000,000	-34%	!	
D 2.2	Electricity cost	Tk	43,723,000	469,924,000	420,229,000	500,000,000	6%		
D 2.3	Chemicals	Tk	16,497,000	60,527,000	60,392,000	100,000,000	39%	++	
D 2.4*	Depreciation	Tk	17,711,250	70,845,000	66,148,000	80,000,000	-18%		
D 2.5	Other operating cost	Tk	91,490,000	180,950,000	116,405,000	60,000,000	-202%	!	
D 2.5.1	Other O & M	Tk	24,461,000	101,870,000	87,769,000	N/A			
D 2.5.2	Capital cost from revenues	Tk	67,029,000	79,080,000	28,636,000	N/A			
D 2.6*	Financial expense	Tk	0	0	0	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	(103,695,969)	90,762,182	28,083,258	215,000,000	-58%	!	
D 4*	Cash at bank	Tk	0	N/A	0	0	N/A		
D 5*	Stock & stores	Tk	0	0	0	0	N/A		
D 6	Accounts Receivable	Tk	861,727,215	N/A	730,082,144	75,000,000	-1049%	!	
D 6.1*	Accounts receivable from Government	Tk	178,400,051	N/A	134,213,003	15,000,000	-1089%	!	
D 6.2*	Accounts receivable from Private	Tk	683,327,164	N/A	595,869,141	60,000,000	-1039%	!	
D 7*	Long term loans	Tk	0	N/A	0	0	#DIV/0!	#DIV/0!	
D 8*	Operating Ratio	Ratio	1.19	0.81	0.89	0.90	10%		
D 9*	Collection period	Day	261	289	288	180	-61%	!	

		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 N/A	68	68	-1%		
E 5	Deep Tube Wells in Operation	Nos.	41	N/A N/A	76	38	8%		
E 6*	·	MLD	40	N/A N/A	28		893%	١	
	Capacity of DTW - direct distribution	1 1				· '		++	
	Capacity of DTW - supply to GWTP	MLD	0	N/A	42	41	-100%	!	
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	10,667	119,197	104,146	105,000	14%		
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	19.03	9.93	10.06	9.90	0%		
E 17*	Non Revenue Water	%	28	25	25	20	-24%		
E 18*	5	No./km/mth		0.55	0.43	0.52	-6%		
E 19	Water quality sample	No./month		1,140	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) 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	15,227	N/A	16,208	26,000	41%	++	
F 4*	% of Overtime to Basic Salary	%	16	N/A	42	35	53%	++	
	omer Services	. •			_				
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	243	3,804	4,057	5,000	-24%		
G 1.2	Service Connection given	Nos.	121	3,556	3,846	4,000	-11%		
G 2	Billing complaints			2,200	5,5 10	1,300			
G 2.1	Complaints received	Nos.	380	4,120	3,551	4,500	8%		
G 2.2	Complaints acted on	Nos.	360	3,718	2,845	3,500	-6%		
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G 2.2 G 3	Leakage complaints received and attended	Nos.	437	5,072	2,645 3,942	4,000	-0%	!	

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.