Chattogram Water Supply & Sewerage Authority Monthly MIS Report February 2020

		Unit	This month	Year to date	Previous	This	Evaluation	tion Remarks *3			
					year	year	*2	++	Too good		
					actual	target *1		!	Very bad		
Selecte	ed Key Indicators										
E 17*	Non Revenue Water	%	25	26	25	20	-32%	!			
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly	%	90	89	92	114	-21%				
D 9*	Collection period	Day	314	328	289	263	-25%				
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	9.4	N/A	10.0	10.0	6%				
D 8*	Operating Ratio	Ratio	0.68	0.85	0.81	0.98	13%				
A 3.5*	Functioning meter rate of installed meter	%	86	N/A	84	100	-14%				
E 19	Water quality sample	No./month	95	760	1,140	95	0%				
E 18*	Leakage occurrence	No./km/mth	0.48	0.50	0.55	0.50	0%				
A 6*	Water supply coverage	%	57	N/A	57	75	-24%				
B 5*	Average tariff	Tk/m3	12.70	12.42	12.13	12.33	3%				
E 16*	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	Tk/m3	7.84	9.47	9.93	13.56	30%	++			
A) Conn	ection data										
A 1	Total registered connections	Nos.	76,837	N/A	74,330	79,000	-3%				
A 1.1	Billable (non-disconnected) connection	Nos.	71,222	N/A	68,798	73,000	-2%				
A 1.2	Non-billable (disconnected) connection	Nos.	5,615	N/A	5,532	6000	6%				
A 1.3	Billed connection	Nos.	69,109	N/A	67,027	72,000	-4%				
A 2	Breakdown of billable connection (by customer type)										
A 2.1*	Domestic	%	97	N/A	97	96	1%				
A 2.2	Non-domestic	%	3	N/A	3	4	26%	++			
A 3	Breakdown of billable connection (by meter status)										
A 3.1	Metered	Nos.	60,807	N/A	57,885	61,500	-1%				
A 3.2	Average reading	Nos.	10,142	N/A	10,635	11,500	12%				
A 3.3	Non meter	Nos.	273	N/A	278	0	#DIV/0!	#DIV/0			
A 3.4*	Meter installation rate	%	100	N/A	100	100	0%				
A 3.5*	Functioning meter rate of installed meter	%	86	N/A	84	100	-14%				
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	57	75	-24%				
A 7	Bill sent-out ratio	%	97	N/A	97	100	-3%				

		Unit	This month	Year to date	Previous	This		Remarks *3
					year	year	*2	++ Too goo
B) Tariff					actual	target *1		! Very bac
B 1 Domest	tic	Tk/m3	9.92	N/A	9.92	10.42	-5%	
B 2 Non-dor		Tk/m3	27.56	N/A	27.56	28.94	-5%	
B 3 Street H		Tk/m3	9.92	N/A	9.92	10.42	-5%	
	us Institutions	Tk/m3	9.92	N/A	9.92	10.42	-5%	
B 5* Average		Tk/m3	12.70	12.42	12.13	12.33	3%	
C) Billing and Col		TINITIO	12.10	12.72	12.10	12.00	070	
C 1 Total bil		Tk	96,880,503	777,477,310	1,087,980,059	1,181,809,000	-1%	
C 1.1* Private	5	Tk	82,084,518	664,417,566	930,097,500	857,062,000	16%	
	rnment	Tk	14,795,985	113,059,744	157,882,559	324,747,000	-48%	1
C 2 Billed vo		ML	7,626	62,613	89,712	95,810	-2%	
C 3 Total co		Tk	87,383,666	694,446,995	996,216,692	1,350,000,000	-23%	
C 3.1* Private		Tk	78,484,494	626,205,530	897,774,626	1,134,949,744	-17%	
	rnment	Tk	8,899,172	68,241,465	98,442,066	215,050,256	-52%	ļ
	collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	90	89	92	114	-21%	
C 4.1* Private		%	96	94	97	132	-28%	ļ
	rnment	%	60	60	62	66	-9%	-
D) Financial data								
,	ie (Total)	Tk	115,518,483	845,651,679	1,274,507,887	1,776,511,000	-29%	!
D 1.1 Water	r revenue	Tk	87,383,666	694,446,995	996,216,692	1,350,000,000	-23%	
D 1.2* Tubev	well license	Tk	12,864,255	37,122,941	122,330,008	90,000,000	-38%	!
D 1.3* Other	operating revenues	Tk	7,353,895	50,748,410	60,961,187	241,511,000	-68%	!
D 1.4* Interes	est income	Tk	7,916,667	63,333,333	95,000,000	95,000,000	0%	
D 2 Expense	es (Total)	Tk	80,069,727	805,056,632	1,183,745,705	1,732,312,000	30%	++
D 2.1* Perso	onnel cost	Tk	28,423,727	293,789,632	401,499,705	505,395,000	13%	
D 2.2 Electri	ricity cost	Tk	40,292,000	320,685,000	469,924,000	540,000,000	11%	
D 2.3 Chem	nicals	Tk	1,886,000	51,457,000	60,527,000	120,000,000	36%	++
D 2.4* Depre	eciation	Tk	0	45,100,000	70,845,000	90,200,000	86%	++
D 2.5 Other	operating cost	Tk	9,468,000	94,025,000	180,950,000	476,717,000	70%	++
D 2.5.1 Other	O & M	Tk	7,532,000	51,736,000	101,870,000	144177000	46%	++
D 2.5.2 Capita	al cost from revenues	Tk	1,936,000	42,289,000	79,080,000	332540000	81%	++
D 2.6* Finance	cial expense	Tk	0	0	0	0	#DIV/0!	#DIV/0!
D 3 Net Inco	ome (Loss)	Tk	35,448,756	40,595,047	90,762,182	44,199,000	38%	++
D 4* Cash at	t bank	Tk	0	N/A	0	0	N/A	
D 5* Stock &	stores	Tk	0	0	0	0	N/A	
D 6 Account	ts Receivable	Tk	1,047,312,280	N/A	861,727,215	861,727,215	-22%	
D 6.1* Accou	unts receivable from Government	Tk	236,407,577	N/A	178,400,051	178,400,051	-33%	!
D 6.2* Accou	unts receivable from Private	Tk	810,904,703	N/A	683,327,164	683,327,164	-19%	
D 7* Long ter	rm loans	Tk	0	N/A	0	0	#DIV/0!	#DIV/0!
D 8* Operatir	ng Ratio	Ratio	0.68	0.85	0.81	0.98	13%	
D 9* Collection	on period	Day	314	328	289	263	-25%	

		Unit	This month	Year to date	Previous	This		Remarks *3	
					year actual	year target *1	*2		o good ry bad
E) Water	Supply				actual	target		: •••	ary bau
E 3	Capacity of Surface WTP (Mohora+Sk.H.WTP+Moduna Gh	MLD	323	N/A	323	323	0%		
E 4	Capacity of Ground WTP	MLD	68	N/A	68	68	-1%		
E 5	Deep Tube Wells in Operation	Nos.	38	N/A	41	41	-7%		
E 6*	Capacity of DTW - direct distribution	MLD	36	N/A	40	40	-11%		
E 7*	Capacity of DTW - supply to GWTP	MLD	0	N/A	0	0	#DIV/0!	#DIV/0!	
E 8*	Capacity of distributable water production	MLD	426	N/A	430	430	-1%		
E 9	Length of Pipeline	km	769	N/A	768	800	-4%		
E 15*	Production (distributable water)	ML	10,208	84,990	119,197	127,750	0%		
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	7.84	9.47	9.93	13.56	30%	++	
E 17*	Non Revenue Water	%	25	26	25	20	-32%	!	
E 18*	Leakage occurrence	, No./km/mtł	0.48	0.50	0.55	0.50	0%		
E 19	Water quality sample	No./month	95	760	1,140	95	0%		
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 1	No. of permanent employees (Total)	Nos.	668	N/A	687	730	8%		
F 1.1	Grade-3-9	Nos.	59	N/A	64	70	N/A	++	
F 1.2	Grade-10-11	Nos.	56	N/A	57	60	N/A	++	
F 1.3	Grade-12-16	Nos.	298	N/A	309	315	N/A	++	
F 1.4	Grade-17-20	Nos.	255	N/A	257	285	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	170	N/A	++	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	9.4	N/A	10.0	10.0	6%		
F 3	Average Monthly Salary	Tk	24,471	N/A	15,227	19,960	-23%		
F 4*	% of Overtime to Basic Salary	%	34	N/A	16	32	-7%		
G) Custo	mer Services								
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	588	3,407	4,701	6,000	-15%		
G 1.2	Service Connection given	Nos.	477	3,041	4,280	5,000	-9%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	180	1,717	4,120	4,500	43%	++	
G 2.2	Complaints acted on	Nos.	160	1,534	3,718	3,500	34%	++	
G 3	Leakage complaints received and attended	Nos.	367	3,062	5,072	5,000	8%		

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.