Chattogram Water Supply & Sewerage Authority Monthly MIS Report

May 2021

	Unit	This month	Year to date	Previous	This	Evaluation	Remarks *3	3
				year	year	*2	++	Too good
				actual	target *1		!	Very bad
Selected Key Indicators								
E 17* Non Revenue Water	%	30	25	28	25	1%		
C 4* Revenue collection efficiency(monthly coll.+outstand. Coll.)/month	%	79	95	83	108	-27%	!	
D 9* Collection period	Day	305	308	324	263	-17%		
F 2* No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	8.3	N/A	9.1	10.0	17%		
D 8* Operating Ratio	Ratio	0.88	0.68	0.86	0.98	31%	++	
A 3.5* Functioning meter rate of installed meter	%	97	N/A	87	100	-3%		
E 19 Water quality sample	No./month	150	1,650	1,200	150	0%		
E 18* Leakage occurrence	No./km/mth	0.56	0.44	0.43	0.50	12%		
A 6* Water supply coverage	%	59	N/A	57	75	-21%		
B 5* Average tariff	Tk/m3	12.33	13.70	12.97	12.63	-2%		
E 16* Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.	Tk/m3	25.81	11.62	10.55	13.44	14%		
A) Connection data								
A 1 Total registered connections	Nos.	82,342	N/A	77,794	82,000	0%		
A 1.1 Billable (non-disconnected) connection	Nos.	76,625	N/A	72,163	76,000	1%		
A 1.2 Non-billable (disconnected) connection	Nos.	5,717	N/A	5,631	6000	5%		
A 1.3 Billed connection	Nos.	73,556	N/A	69,370	73,000	1%		
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	35%	++	
A 3 Breakdown of billable connection (by meter status)								
A 3.1 Metered	Nos.	73,964	N/A	62,294	66,000	12%		
A 3.2 Average reading	Nos.	2,550	N/A	9,603	10,000	75%	++	
A 3.3 Non meter	Nos.	111	N/A	266	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	%	97	N/A	87	100	-3%		
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	%	59	N/A	57	75	-21%		
A 7 Bill sent-out ratio	%	96	N/A	96	100	-4%		

		Unit	This month	Year to date	Previous	This	Evaluation	n Remarks *3	
					year	year	*2		Too good
B) Tari	f				actual	target *1		!	Very bad
B 1	Domestic	Tk/m3	12.40	N/A	12.40	13.02	-5%		
B 2	Non-domestic	Tk/m3	30.30	N/A	30.30	31.82	-5%		
B 3	Street Hydrant	Tk/m3	12.40	N/A	12.40	13.02	-5%		
B 4	Religious Institutions	Tk/m3	12.40	N/A	12.40	13.02	-5%		
B 5*	Average tariff	Tk/m3	12.33	13.70	12.97	12.63	-2%		
	ng and Collection	TR/IIIO	12.00	13.70	12.51	12.00	-2.70		
C 1	Total billing	Tk	120,504,923	1,288,250,912	1,199,365,227	1,572,449,000	-11%		
C 1.1*		Tk	103,964,803	1,115,147,363	1,022,107,233	1,140,313,000	7%		
C 1.2*		Tk	16,540,120	173,103,549	177,257,994	432,136,000	-56%	1	
C 2	Billed volume (Total Volume Accounted)	ML	9,776	94,002	92,471	124,480	-18%		
C 3	Total collection	Tk	94,995,656	1,222,155,666	999,936,576	1,700,275,000	-22%		
C 3.1*		Tk	86,440,067	1,080,265,946	904,252,954	1,429,446,000	-18%		
C 3.2*		Tk	8,555,589	141,889,720	95,683,622	270,829,000	-43%	1	
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	79	95	83	108	-27%	i	
C 4.1*		%	83	97	88	125	-34%	i	
C 4.2*		%	52	82	54	63	-17%		
	ncial data				-				
D 1	Revenue (Total)	Tk	113,468,991	1,517,038,056	1,247,632,906	2,237,451,000	-26%	!	
D 1.1	Water revenue	Tk	94,995,656	1,222,155,666	999,936,576	1,700,275,000	-22%		
D 1.2*	Tubewell license	Tk	5,385,202	119,573,836	88,080,389	90,000,000	45%	++	
D 1.3*	Other operating revenues	Tk	5,171,466	88,225,221	64,615,941	352,176,000	-73%	!	
D 1.4*		Tk	7,916,667	87,083,333	95,000,000	95,000,000	0%		
D 2	Expenses (Total)	Tk	360,242,731	1,449,795,765	1,357,711,024	2,230,253,000	29%	++	
D 2.1*		Tk	42,741,731	393,482,765	421,236,024	512,607,000	16%		
D 2.2	Electricity cost	Tk	46,590,000	484,839,000	493,984,000	703,000,000	25%		
D 2.3	Chemicals	Tk	739,000	70,917,000	67,887,000	140,000,000	45%	++	
D 2.4*	Depreciation	Tk	0	75,903,000	90,200,000	101,204,000	89%	++	
D 2.5	Other operating cost	Tk	270,172,000	424,654,000	284,404,000	773,442,000	40%	++	
D 2.5.	1 Other O & M	Tk	9,909,000	77,616,000	91,126,000	143,702,000	41%	++	
D 2.5.	2 Capital cost from revenues	Tk	260,263,000	347,038,000	193,278,000	629,740,000	40%	++	
D 2.6*		Tk	0	0	0	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	(246,773,740)	67,242,291	(110,078,118)	7,198,000	919%	++	
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	1,187,546,105	N/A	1,065,256,836	1,065,256,836	-11%		
D 6.1*	Accounts receivable from Government	Tk	251,630,754	N/A	211,109,539	211,109,539	-19%		
D 6.2*		Tk	935,915,351	N/A	854,147,297	854,147,297	-10%		
D 7*	Long term loans	Tk	0	N/A	0	0	#DIV/0!	#DIV/0!	
D 8*	Operating Ratio	Ratio	0.88	0.68	0.86	0.98	31%	++	
D 9*	Collection period	Day	305	308	324	263	-17%		

		Unit	This month	Year to date	Previous	This		Evaluation Remarks *3	
					year actual	year target *1	*2	++	Too good Very bad
E) Wate	r Supply				actual	target		:	very bad
É 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.	60	N/A	42	44	36%	++	
E 6*	Capacity of DTW - direct distribution	MLD	61	N/A	38	40	52%	++	
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	451	N/A	428	430	5%		
E 9	Length of Pipeline	km	770	N/A	770	920	-16%		
E 15*	Production (distributable water)	ML	13,956.71	124,770	128,662	165,970	-18%		
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	25.81	11.62	10.55	13.44	14%		
E 17*	Non Revenue Water	%	30	25	28	25	1%		
E 18*	Leakage occurrence	No./km/mth	0.56	0.44	0.43	0.50	12%		
E 19	Water quality sample	No./month	150	1,650	1,200	150	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.	634	N/A	658	730	13%		
F 1.1	Grade-3-9	Nos.	56	N/A	57	70	N/A	++	
F 1.2	Grade-10-11	Nos.	52	N/A	55	60	N/A	++	
F 1.3	Grade-12-16	Nos.	280	N/A	291	315	N/A	++	
F 1.4	Grade-17-20	Nos.	246	N/A	255	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.	41	N/A	32	170	N/A	++	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	8.3	N/A	9.1	10.0	17%		
F 3	Average Monthly Salary	Tk	18,054	N/A	17,366	19,960	10%		
F 4*	% of Overtime to Basic Salary	%	38	N/A	15	32	-17%		
G) Custo	omer Services								
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	294	4,774	4,305	6,000	-13%		
G 1.2	Service Connection given	Nos.	236	4,029	3,745	5,000	-12%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	51	1,678	2,115	4,500	59%	++	
G 2.2	Complaints acted on	Nos.	47	1,379	1,854	3,500	57%	++	
G 3	Leakage complaints received and attended	Nos.	428	3,706	3,993	5,000	19%		

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 guarterly 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 quarterly 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) 1 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.