Chattogram Water Supply & Sewerage Authority Monthly MIS Report

February 2021

1 ebitaly 2021										
	Unit	This month	Year to date		_					
				•		*2	++	Too good		
ad Marchadiaetera				actuai	target *1		!	Very bad		
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•							++			
-					100					
	No./month			=						
	No./km/mth	0.41	0.41	0.43	0.50	19%				
Water supply coverage	%	58	N/A	57	75	-22%				
Average tariff	Tk/m3	15.08	14.03	12.97	12.63	19%				
Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	Tk/m3	8.39	9.92	10.55	13.44	26%	++			
ection data										
Total registered connections	Nos.	81,461	N/A	77,794	82,000	-1%				
Billable (non-disconnected) connection	Nos.	75,766	N/A	72,163	76,000	0%				
Non-billable (disconnected) connection	Nos.	5,695	N/A	5,631	6000	5%				
Billed connection	Nos.	72,588	N/A	69,370	73,000	-1%				
Breakdown of billable connection (by customer type)										
Domestic	%	97	N/A	97	96	1%				
Non-domestic	%	3	N/A	3	4	34%	++			
Breakdown of billable connection (by meter status)										
Metered	Nos.	72,940	N/A	62,294	66,000	11%				
Average reading	Nos.	2,698	N/A	9,603	10,000	73%	++			
Non meter	Nos.	128	N/A	266	0	#DIV/0!	#DIV/0!			
Meter installation rate	%	100	N/A	100	100	0%				
Functioning meter rate of installed meter	%	96	N/A	87	100	-4%				
· ·	Nos.	689	N/A	689	689	0%				
	Nos.									
<u> </u>										
t t t	%									
	Collection period No. of perma. employee per 1000 connections(excl. non-perma. Em Operating Ratio Functioning meter rate of installed meter Water quality sample Leakage occurrence Water supply coverage Average tariff Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.) nection data Total registered connections Billable (non-disconnected) connection Non-billable (disconnected) connection Billed connection Breakdown of billable connection (by customer type) Domestic Non-domestic Breakdown of billable connection (by meter status) Metered Average reading Non meter	Non Revenue Water Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl Collection period No. of perma. employee per 1000 connections(excl. non-perma. Em Operating Ratio Functioning meter rate of installed meter Water quality sample Leakage occurrence Water supply coverage Average tariff Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.) Total registered connections Billable (non-disconnected) connection Non-billable (disconnected) connection Breakdown of billable connection (by customer type) Domestic Non-domestic Breakdown of billable connection (by meter status) Metered Average reading Non meter Mos. Meter installation rate Functioning meter rate of installed meter Street Hydrant Religious Institutions Water supply coverage % Nos. Day % Nos. Ratio % Nos./km/mth % No./km/mth % Tk/m3 Tt/m3 Tection data Total registered connection Nos. Nos. Nos. Nos. Nos. Nos. Nos. % Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	ed Key Indicators Non Revenue Water Revenue collection efficiency(monthly coll.+outstand. Coll.)/month Collection period No. of perma. employee per 1000 connections(excl. non-perma. Em Nos. Operating Ratio Functioning meter rate of installed meter Water quality sample Leakage occurrence Water supply coverage Average tariff Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.) Wos. Billable (non-disconnected) connection Nos. Billable (non-disconnected) connection Nos. Breakdown of billable connection (by customer type) Domestic Non-domestic Water dadding Breakdown of billable connection (by meter status) Metered Average reading Non meter Nos. Meter installation rate Functioning meter rate of installed meter % 96 Nos. 75,766 Nos. 75,766 Nos. 72,588 Religious Institutions Nos. 72,940 Nos. 689 Nos. 689 Religious Institutions Nos. 368 Water supply coverage % 58	Part Part	Part Part	March Marc	Collection period Part P	Part Part		

B) Tariff	
B Tariff	
B 1 Domestic	
B 2 Non-domestic	
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 15.08 14.03 12.97 12.63 19% C) Billing and Collection Tk 118,616,941 945,264,388 1,199,365,227 1,572,449,000 -10% C 1.1* Private Tk 103,504,499 818,115,837 1,022,107,233 1,140,313,000 8% C 1.2* Government Tk 15,112,442 127,148,551 177,257,994 42,136,000 -56% C 2 Billed volume (Total Volume Accounted) ML 7,864 67,354 92,471 124,480 -19% C 3.1* Private Tk 110,737,397 779,712,830 904,252,954 1,429,446,000 -21% C 3.2* Government Tk 110,737,397 779,712,830 904,252,954 1,429,446,000 -18% C 3.2* Government Tk 6,631,693 118,964,677 95,683,622 270,829,000 -34% C 4.1* Private % 107 95 88 125 -15% C 4.2* Government % 44 94 54 63 -30% D) Financial data D 1 Revenue (Total) Tk 145,807,214 1,072,795,940 1,247,632,906 2,237,451,000 -28% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -28% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -28% D 1.1 Water revenue Tk 145,807,214 1,072,795,940 1,247,632,906 2,237,451,000 -28% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21% D 1.	
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D 1.1 Water revenue Tk 117,369,090 898,677,507 999,936,576 1,700,275,000 -21%	
	6!
D 1.2* Tubewell license Tk 12 211 433 44 426 182 88 080 389 90 000 000 - 26%	6
1	6 !
D 1.3* Other operating revenues Tk 8,310,024 66,358,918 64,615,941 352,176,000 -72%	6 !
D 1.4* Interest income Tk 7,916,667 63,333,333 95,000,000 95,000,000 0%	
D 2 Expenses (Total) Tk 81,751,060 853,912,488 1,357,711,024 2,230,253,000 43%	++
D 2.1* Personnel cost Tk 32,189,060 270,277,488 421,236,024 512,607,000 21%	5
D 2.2 Electricity cost Tk 43,758,000 352,309,000 493,984,000 703,000,000 25%	
D 2.3 Chemicals Tk 31,000 49,935,000 67,887,000 140,000,000 46%	
D 2.4* Depreciation Tk 0 50,602,000 90,200,000 101,204,000 90%	
D 2.5 Other operating cost Tk 5,773,000 130,789,000 284,404,000 773,442,000 75%	
D 2.5.1 Other O & M Tk 5,162,000 48,345,000 91,126,000 143,702,000 50%	
D 2.5.2 Capital cost from revenues Tk 611,000 82,444,000 193,278,000 629,740,000 80%	
D 2.6* Financial expense	
D 3 Net Income (Loss) Tk 64,056,154 218,883,452 (110,078,118) 7,198,000 44619	
D 4* Cash at bank	
D 5* Stock & stores	
D 6 Accounts Receivable Tk 1,190,947,376 N/A 1,065,256,836 1,065,256,836 -12%	
D 6.1* Accounts receivable from Government Tk 286,321,912 N/A 211,109,539 211,109,539 -36%	
D 6.2* Accounts receivable from Private Tk 904,625,464 N/A 854,147,297 854,147,297 -6%	
D 7* Long term loans	
D 8* Operating Ratio Ratio 0.56 0.67 0.86 0.98 31%	
D 9* Collection period Day 281 307 324 263 -17%	

		Unit	This month	Year to date	Previous	This		Remarks *3	
					year	year	*2	++	Too good
E) Wate	er Supply				actual	target *1		!	Very bad
E 3	Сарасіty 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.	49	N/A N/A	42	44	11%		
E 6*	Capacity of DTW - direct distribution	MLD	39	N/A N/A	38	40	-4%		
E 7*	Capacity of DTW - supply to GWTP	MLD	0	N/A N/A	0	0	#DIV/0!	#DIV/0!	
E 8*	Capacity of distributable water production	MLD	429	N/A N/A	428	430	#DIV/0!	#010/0!	
E 9	Length of Pipeline		770	N/A N/A	770	920	-16%		
E 15*	Production (distributable water)	km ML	9,747.64	86,061	128,662	920 165,970	-10%		
E 15.1	,		•		0		-22% N/A		
	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	ML Th/m 0	0	0	•	0			
E 16*		Tk/m3	8.39	9.92	10.55	13.44	26%	++	
E 17*	Non Revenue Water	% N= ////	19	22	28	25	13%		
E 18*	•	No./km/mth	0.41	0.41	0.43	0.50	19%		
E 19	Water quality sample	No./month	150	1,200	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			0.44	21/2	0.50	700	4.007		
F 1	No. of permanent employees (Total)	Nos.	641	N/A	658	730	12%		
F 1.1	Grade-3-9	Nos.	58	N/A	57	70	N/A	++	
F 1.2	Grade-10-11	Nos.	54	N/A	55	60	N/A	++	
F 1.3	Grade-12-16	Nos.	283	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.)	1	8.5	N/A	9.1	10.0	15%		
F 3	Average Monthly Salary	Tk	23,374	N/A	17,366	19,960	-17%		
F 4*	% of Overtime to Basic Salary	%	22	N/A	15	32	30%	++	
,	omer Services								
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	481	3,543	4,305	6,000	-11%		
G 1.2	Service Connection given	Nos.	376	2,973	3,745	5,000	-11%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	79	1,419	2,115	4,500	53%	++	
G 2.2	Complaints acted on	Nos.	75	1,125	1,854	3,500	52%	++	
G 3	Leakage complaints received and attended	Nos.	312	2,505	3,993	5,000	25%		

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.