Chattogram Water Supply & Sewerage Authority Monthly MIS Report December 2020

	December 2020										
		Unit	This month	Year to date	Previous	This		tion Remarks *3			
					year	year	*2	++	Too good		
0 1 1					actual	target *1		!	Very bad		
	ed Key Indicators										
E 17*	Non Revenue Water	%	21	22	28	25	12%				
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl		91	95	83	108	-16%				
D 9*	Collection period	Day	310	308	324	263	-17%				
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em		8.8	N/A	9.1	10.0	12%				
D 8*	Operating Ratio	Ratio	0.71	0.67	0.86	0.98	31%	++			
A 3.5*	Functioning meter rate of installed meter	%	90	N/A	87	100	-10%				
E 19	Water quality sample	No./month	150	900	1,200	150	0%				
E 18*	Leakage occurrence	No./km/mtl	0.50	0.40	0.43	0.50	21%				
A 6*	Water supply coverage	%	58	N/A	57	75	-23%				
B 5*	Average tariff	Tk/m3	14.10	13.92	12.97	12.63	12%				
E 16*	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	Tk/m3	10.94	10.33	10.55	13.44	23%				
A) Conr	nection data										
A 1	Total registered connections	Nos.	80,409	N/A	77,794	82,000	-2%				
A 1.1	Billable (non-disconnected) connection	Nos.	74,738	N/A	72,163	76,000	-2%				
A 1.2	Non-billable (disconnected) connection	Nos.	5,671	N/A	5,631	6000	5%				
A 1.3	Billed connection	Nos.	71,827	N/A	69,370	73,000	-2%				
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	32%	++			
A 3	Breakdown of billable connection (by meter status)										
A 3.1	Metered	Nos.	66,723	N/A	62,294	66,000	1%				
A 3.2	Average reading	Nos.	7,761	N/A	9,603	10,000	22%				
A 3.3	Non meter	Nos.	254	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	%	90	N/A	87	100	-10%				
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	%	58	N/A	57	75	-23%				
A 7	Bill sent-out ratio	%	96	N/A	96	100	-4%				

		Unit	This month	Year to date	Previous	This		Remarks *3	
					year actual	year target *1	*2		Too good Very bad
B) Tarif					actual	target		:	very bau
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%		
В 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	14.10	13.92	12.97	12.63	12%		
C) Billing and Collection			-		-				
C 1	Total billing	Tk	119,900,285	709,322,764	1,199,365,227	1,572,449,000	-10%		
C 1.1*	Private	Tk	104,789,116	612,553,483	1,022,107,233	1,140,313,000	7%		
C 1.2*	Government	Tk	15,111,169	96,769,281	177,257,994	432,136,000	-55%	!	
C 2	Billed volume (Total Volume Accounted)	ML	8,504	50,974	92,471	124,480	-18%		
C 3	Total collection	Tk	109,249,328	676,718,711	999,936,576	1,700,275,000	-20%		
C 3.1*	Private	Tk	99,944,391	571,132,616	904,252,954	1,429,446,000	-20%		
C 3.2*	Government	Tk	9,304,937	105,586,095	95,683,622	270,829,000	-22%		
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	91	95	83	108	-16%		
C 4.1*	Private	%	95	93	88	125	-24%		
C 4.2*	Government	%	62	109	54	63	-2%		
D) Financial data									
D 1	Revenue (Total)	Tk	127,292,419	804,568,361	1,247,632,906	2,237,451,000	-28%	!	
D 1.1	Water revenue	Tk	109,249,328	676,718,711	999,936,576	1,700,275,000	-20%		
D 1.2*	Tubewell license	Tk	4,149,162	29,110,020	88,080,389	90,000,000	-35%	!	
D 1.3*	Other operating revenues	Tk	5,977,262	51,239,630	64,615,941	352,176,000	-71%	!	
D 1.4*	Interest income	Tk	7,916,667	47,500,000	95,000,000	95,000,000	0%		
D 2	Expenses (Total)	Tk	118,363,079	674,355,757	1,357,711,024	2,230,253,000	40%	++	
D 2.1*	Personnel cost	Tk	31,014,079	207,939,757	421,236,024	512,607,000	19%		
D 2.2	Electricity cost	Tk	39,996,000	264,025,000	493,984,000	703,000,000	25%		
D 2.3	Chemicals	Tk	12,755,000	41,253,000	67,887,000	140,000,000	41%	++	
D 2.4*	Depreciation	Tk	25,301,000	50,602,000	90,200,000	101,204,000	87%	++	
D 2.5	Other operating cost	Tk	9,297,000	110,536,000	284,404,000	773,442,000	71%	++	
D 2.5.	Other O & M	Tk	7,088,000	29,740,000	91,126,000	143,702,000	59%	++	
D 2.5.2	Capital cost from revenues	Tk	2,209,000	80,796,000	193,278,000	629,740,000	74%	++	
D 2.6*	Financial expense	Tk	0	0	0	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	8,929,340	130,212,604	(110,078,118)	7,198,000	3518%	++	
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	1,197,691,633	N/A	1,065,256,836	1,065,256,836	-12%		
D 6.1*	Accounts receivable from Government	Tk	263,198,670	N/A	211,109,539	211,109,539	-25%		
D 6.2*	Accounts receivable from Private	Tk	934,492,963	N/A	854,147,297	854,147,297	-9%		
D 7*	Long term loans	Tk	0	N/A	0	0	#DIV/0!	#DIV/0!	
D 8*	Operating Ratio	Ratio	0.71	0.67	0.86	0.98	31%	++	
D 9*	Collection period	Day	310	308	324	263	-17%		

			This month	Year to date	Previous	This		Remarks *3	
					year	year	*2	++	Too good
E) Water Supply					actual	target *1		!	Very bad
	Surface WTP (Mohora+Sk.H.WTP+Moduna Gh	MLD	323	N/A	323	323	0%		
	Ground WTP	MLD	68	N/A	68	68	-1%		
	Wells in Operation	Nos.	48	N/A	42	44	9%		
·	DTW - direct distribution	MLD	36	N/A	38	40	-9%		
	DTW - direct distribution DTW - supply to GWTP	MLD	0	N/A	0	0	#DIV/0!	#DIV/0!	
	distributable water production	MLD	427	N/A	428	430	-1%	#010/0!	
E 9 Length of Pi	·		770	N/A N/A	770	920	-16%		
_	distributable water)	km ML	10,817.5	65,270	128,662	920 165,970	-16%		
,	to users before boosters	ML	0	05,270	0	0	-21% N/A		
	n cost (in/c Capt. Cost,Deprec. & Financial Expense.)		10.94	10.33	10.55	13.44	23%		
E 17* Non Revenu		Tk/m3 %	10.94	10.33	28	13. 44 25	12%		
		1							
E 18* Leakage occ		No./km/mth	0.50	0.40	0.43	0.50	21%		
E 19 Water qualit	•	No./month	150	900	1,200	150	0%		
	sample in chlorine level	%	100	100	100	100	0%		
	sample in microbiological level	%	100	100	100	100	0%		
F) Personnel	(T)	N.	054	N 1/A	050	700	4.007		
	anent employees (Total)	Nos.	654	N/A	658	730	10%		
F 1.1 Grade-3-9		Nos.	59	N/A	57	70	N/A	++	
F 1.2 Grade-10		Nos.	54	N/A	55	60	N/A	++	
F 1.3 Grade-12		Nos.	293	N/A	291	315	N/A	++	
F 1.4 Grade-17		Nos.	248	N/A	255	285	N/A	++	
	permanent employees (Total)	Nos.	0	N/A	0	0	#DIV/0!	#DIV/0!	
	arge (6 month contract worker)	Nos.	0	N/A	0	0	N/A	++	
	II (Daily basis casual worker)	Nos.	0	N/A	0	0	N/A	++	
-	aff (hired by project budget)	Nos.	41	N/A	32	170	N/A	++	
	employee per 1000 connections(excl. non-perma. Empl.)	1	8.8	N/A	9.1	10.0	12%		
F 3 Average Mo		Tk	26,345	N/A	17,366	19,960	-32%	!	
	ne to Basic Salary	%	41	N/A	15	32	-28%	!	
G) Customer Services									
	e Connection								
	Connection Application Received	Nos.	422	2,624	4,305	6,000	-13%		
	Connection given	Nos.	357	2,248	3,745	5,000	-10%		
G 2 Billing comp	laints								
G 2.1 Complain	ts received	Nos.	200	1,150	2,115	4,500	49%	++	
	ts acted on	Nos.	160	910	1,854	3,500	48%	++	
G 3 Leakage cor	mplaints received and attended	Nos.	386	1,830	3,993	5,000	27%	++	

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.