Chattogram Water Supply & Sewerage Authority Monthly MIS Report January 2020

			January 2020				T=	· ·	1. 6
		Unit	This month	Year to date	Previous	This	Evaluation		
					year	year	*2	++	Too good
<u> </u>					actual	target *1		!	Very bad
	ted Key Indicators								
E 17*	Non Revenue Water	%	27	26	25	20	-32%	!	
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl	%	101	89	92	114	-11%		
D 9*	Collection period	Day	313	307	289	263	-17%		
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	9.5	N/A	10.0	10.0	5%		
D 8*	Operating Ratio	Ratio	0.77	0.88	0.81	0.98	11%		
A 3.5*	Functioning meter rate of installed meter	%	85	N/A	84	100	-15%		
E 19	Water quality sample	No./month	95	665	1,140	95	0%		
E 18*	Leakage occurrence	No./km/mth	0.72	0.50	0.55	0.50	0%		
A 6*	Water supply coverage	%	57	N/A	57	75	-24%		
B 5*	Average tariff	Tk/m3	12.46	12.38	12.13	12.33	1%		
E 16*	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	Tk/m3	11.71	9.69	9.93	13.56	29%	++	
A) Con	nection data								
A 1	Total registered connections	Nos.	76,336	N/A	74,330	79,000	-3%		
A 1.1	Billable (non-disconnected) connection	Nos.	70,739	N/A	68,798	73,000	-3%		
A 1.2	Non-billable (disconnected) connection	Nos.	5,597	N/A	5,532	6000	7%		
A 1.3	Billed connection	Nos.	68,905	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	25%		
A 3	Breakdown of billable connection (by meter status)								
A 3.1	Metered	Nos.	60,239	N/A	57,885	61,500	-2%		
A 3.2	Average reading	Nos.	10,231	N/A	10,635	11,500	11%		
A 3.3	Non meter	Nos.	269	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	%	85	N/A	84	100	-15%		
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	Evaluation	1	
					year	year	*2	++	Too good
D\ Toriff					actual	target *1		!	Very bad
B) Tariff	Domestic	Tl _t /m2	0.02	NI/A	0.02	10.42	F0/		
B 1		Tk/m3	9.92	N/A N/A	9.92	10.42 28.94	-5% 5%		
B 2	Non-domestic Street Hydropt	Tk/m3	27.56		27.56	10.42	-5% 5%		
B 3	Street Hydrant	Tk/m3	9.92	N/A	9.92		-5%		
B 4	Religious Institutions	Tk/m3	9.92	N/A	9.92	10.42	-5%		
B 5*	Average tariff	Tk/m3	12.46	12.38	12.13	12.33	1%		
-	g and Collection	TL	07.054.000	600 506 007	1 007 000 050	1 101 000 000	10/		
C 1	Total billing Private	Tk Tk	97,254,832	680,596,807	1,087,980,059	1,181,809,000	-1%		
C 1.1*			82,866,686	582,333,048	930,097,500	857,062,000	16%	١,	
C 1.2*	Government	Tk	14,388,146	98,263,759	157,882,559	324,747,000	-48%	!	
C 2	Billed volume	ML	7,807	54,987	89,712	95,810	-2%		
C 3	Total collection	Tk	98,396,635	607,063,329	996,216,692	1,350,000,000	-23%		
C 3.1*	Private	Tk	89,683,573	547,721,036	897,774,626	1,134,949,744	-17%	l ,	
C 3.2*	Government	Tk	8,713,062	59,342,293	98,442,066	215,050,256	-53%	!	
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	101	89	92	114	-11%		
C 4.1*	Private	%	108	94	97	132	-18%		
C 4.2*	Government	%	61	60	62	66	-9%		
,	ncial data	TI.	440,000,005	700 400 407	4 074 507 007	4 770 544 000	200/		
D 1	Revenue (Total)	Tk	116,890,265	730,133,197	1,274,507,887	1,776,511,000	-30%	!	
D 1.1	Water revenue	Tk	98,396,635	607,063,329	996,216,692	1,350,000,000	-23%	١.	
D 1.2*	Tubewell license	Tk	3,036,536	24,258,686	122,330,008	90,000,000	-54%	!	
D 1.3*	Other operating revenues	Tk	7,540,427	43,394,515	60,961,187	241,511,000	-69%	!	
D 1.4*	Interest income	Tk	7,916,667	55,416,667	95,000,000	95,000,000	0%		
D 2	Expenses (Total)	Tk	125,631,008	724,986,905	1,183,745,705	1,732,312,000	28%	++	
D 2.1*	Personnel cost	Tk	33,777,008	265,365,905	401,499,705	505,395,000	10%		
D 2.2	Electricity cost	Tk	39,364,000	280,393,000	469,924,000	540,000,000	11%		
D 2.3	Chemicals	Tk	8,373,000	49,571,000	60,527,000	120,000,000	29%	++	
D 2.4*	Depreciation	Tk	0	45,100,000	70,845,000	90,200,000	84%	++	
D 2.5	Other operating cost	Tk	44,117,000	84,557,000	180,950,000	476,717,000	70%	++	
D 2.5.1		Tk	8,864,000	44,204,000	101,870,000	144177000	47%	++	
D 2.5.2	•	Tk	35,253,000	40,353,000	79,080,000	332540000	79%	++	
D 2.6*	Financial expense	Tk	0	0	0	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	(8,740,743)	5,146,292	90,762,182	44,199,000	-80%	!	
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	982,364,310	N/A	861,727,215	861,727,215	-14%		
D 6.1*	Accounts receivable from Government	Tk	221,357,671	N/A	178,400,051	178,400,051	-24%		
D 6.2*	Accounts receivable from Private	Tk	761,006,639	N/A	683,327,164	683,327,164	-11%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
D 7*	Long term loans	Tk	0	N/A	0	0	#DIV/0!	#DIV/0!	
D 8*	Operating Ratio	Ratio	0.77	0.88	0.81	0.98	11%		
D 9*	Collection period	Day	313	307	289	263	-17%		

		Unit	This month	Year to date	Previous	This	Evaluation	Remarks	*3
					year	year	*2	++	Too good
E) Wate	r Supply				actual	target *1		!	Very bad
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	-10%		
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	10,727	74,782	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	11.71	9.69	9.93	13.56	29%	++	
E 17*	Non Revenue Water	%	27	26	25	20	-32%	!	
E 18*	Leakage occurrence	No./km/mth	0.72	0.50	0.55	0.50	0%		
E 19	Water quality sample	No./month	95	665	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) Personnel									
F 1	No. of permanent employees (Total)	Nos.	670	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.	300	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.	9.5	N/A	10.0	10.0	5%		
F 3	Average Monthly Salary	Tk	23,792	N/A	15,227	19,960	-19%		
F 4*	% of Overtime to Basic Salary	%	43	N/A	16	32	-34%	!	
G) Custo	omer Services								
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	513	2,819	4,701	6,000	-19%		
G 1.2	Service Connection given	Nos.	527	2,564	4,280	5,000	-12%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	190	1,537	4,120	4,500	41%	++	
G 2.2	Complaints acted on	Nos.	150	1,374	3,718	3,500	33%	++	
G 3	Leakage complaints received and attended	Nos.	553	2,695	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.