CHATTOGRAM WATER SUPPLY AND SEWERAGE AUTHORITY



MANAGEMENT INFORMATION SYSTEM REPORT FOR THE MONTH OF MAY-2023

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Chattogram Water Supply & Sewerage Authority Monthly MIS Report

May 2023

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		Unit	nit This month	Year to date	Previous	This	Evaluation		
			ļ		year	year	*2	++	Too goo
		Who 27.27 11 20 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			actual	target *1		Thinks report to the	Very bad
Selecte	ed Key Indicators							e band	
E 17*	Non Revenue Water	%	26	31	30	23	-35%	!	
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthl	%	89	87	93	99	-10%		
D 9*	Collection period	Day	225	230	282	263	13%		
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	6.4	N/A	7.3	8.5	25%		
D 8*	Operating Ratio	Ratio	0.61	0.63	0.79	0.72	13%		
A 3.5*	Functioning meter rate of installed meter	%	92	N/A	95	100	-8%		
E 19	Water quality sample	No./month	200	2,200	2,400	2,400	-92%	!	
E 19 E 18*	Leakage occurrence	No./km/mth		0.36	0.38	5.04	93%	++	
A 6*	Water supply coverage	%	63	N/A	62	75	-16%		
B 5*	Average tariff	Tk/m3	19.04	18.06	14.28	15.28	25%	İ	
E 16*	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.)	Tk/m3	9.42	16.43	12.31	0.00	20%		CSSSSS CSSS encoughtered to
A) Conn	ection data								
A 1	Total registered connections	Nos.	92,295	N/A	86,788	91,700	1%		
A 1.1	Billable (non-disconnected) connection	Nos.	86,375	N/A	81,005	85,700	1%		
A 1.2	Non-billable (disconnected) connection	Nos.	5,920	N/A	5,783	6000	1%		
A 1.3	Billed connection	Nos.	83,031	N/A	78,980	84,000	-1%		
A 2	Breakdown of billable connection (by customer type)								
A 2.1*	Domestic	%	93	N/A	93	93	0%		
A 2.2	Non-domestic	%	7	N/A	7	7	3%		
A 3	Breakdown of billable connection (by meter status)								
A 3.1	Metered	Nos.	79,265	N/A	77,176	81,700	-3%		
A 3.2	Average reading	Nos.	7,007	N/A	3,723	4,000	-75%] !	
A 3.3	Non meter	Nos.	103	N/A	106	106	3%		
A 3.4*	Meter installation rate	%	100	N/A	100	100	0%		
A 3.5*	Functioning meter rate of installed meter	%	92	N/A	95	100	-8%		
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	%	63	N/A	62	75	-16%		
A 7	Bill sent-out ratio	%	96	N/A	98	98	-2%		

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		Unit	This month	Year to date	Previous	This	Evaluation	Remarks *3	
					year actual	year target *1	*2	++ Too g ! Very I	
B) Tarif									
B 1	Domestic	Tk/m3	18.00	N/A	13.02	13.67	32%	++	
B 2	Non-domestic	Tk/m3	37.00	N/A	31.82	33.41	11%		
B 3	Street Hydrant	Tk/m3	18.00	N/A	13.02	13.67	32%	++	
B 4	Religious Institutions	Tk/m3	18.00	N/A	13.02	13.67	32%	++	
B 5*	Average tariff	Tk/m3	19.04	18.06	14.28	15.28	25%		
61 5 0 BILLIA TX CRES MOST	g and Collection								
C 1	Total billing	Tk	186,079,933	1,968,801,434	1,646,498,206	1,931,900,000	11%		
C 1.1*	Private	Tk	163,990,781	1,723,610,748	1,417,237,972	1,552,430,000	21%		
C 1.2*	Government	Tk	22,089,152	245,190,686	229,260,234	379,470,000	-30%	ļ	
C 2	Billed volume (Total Volume Accounted)	ML	9,774	109,013	115,273	126,470	-6%		
C 3	Total collection	Tk	166,251,311	1,719,650,280	1,532,296,451	1,916,900,000	-2%		
C 3.1*	Private	Tk	158,094,558	1,597,394,799	1,385,932,394	1,712,297,000	2%		
C 3.2*	Government	Tk	8,156,753	122,255,481	146,364,057	204,603,000	-35%	!	
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.	%	89	87	93	99	-10%		
C 4.1*	Private	%	96	93	98	110	-13%		
C 4.2*	Government	%	37	50	64	54	-32%	ļ.	
D) Fina	ncial data					Catalogue (Catalogue Catalogue Catal			
D 1	Revenue (Total)	Tk	191,126,582	2,022,904,927	1,828,840,771	2,296,850,000	-4%	Arman, a vertalinina Andria (1994) (1995) (1995) (1995)	
D 1.1	Water revenue	Tk	166,251,311	1,719,650,280	1,532,296,451	1,916,900,000	-2%		
D 1.2*	Tubewell license	Tk	10,194,070	119,645,871	114,045,305	100,000,000	31%	++	
D 1.3*	Other operating revenues	Tk	6,347,868	91,942,110	82,499,015	179,950,000	-44%	Į.	
D 1.4*	Interest income	Tk	8,333,333	91,666,667	100,000,000	100,000,000	0%	·	
D 2	Expenses (Total)	Tk	123,780,556	2,597,890,096	2,032,959,163	3,372,762,373	16%		
D 2.1*	Personnel cost	Tk	25,326,556	389,775,566	426,879,163	575,536,000	26%	++	
D 2.2	Electricity cost	Tk	75,131,000	711,443,000	652,415,000	773,000,000	0%		
D 2.3	Chemicals	Tk	5,731,000	87,395,000	141,233,000	140,000,000	32%	++	
D 2.4*	Depreciation	Tk	0	1,103,957,530	246,857,000	1,471,943,373	18%		
D 2.5	Other operating cost	Tk	17,592,000	305,319,000	565,575,000	412,283,000	19%		
D 2.5.		Tk	9,589,000	78,943,000	220,317,000	173,693,000	50%	++	
D 2.5.2		Tk	8,003,000	226,376,000	345,258,000	238,590,000	-4%		
D 2.6*	Financial expense	Tk	0,000,000	0	0	0	#DIV/0!	#DIV/0!	
D 3	Net Income (Loss)	Tk	67,346,026	(574,985,169)	(204,118,392)	(1,075,912,373)	-42%	#DIV/O:	
D 4*	Cash at bank	Tk	07,340,020	N/A	(204,118,392)	(1,075,912,375)	N/A	1	
D 5*	Stock & stores	Tk	0	0	0	140,034	N/A		
D 6	Accounts Receivable	Tk	1,353,309,605	N/A	1,271,740,973	1,271,740,973	-6%		
D 6.1*	Accounts receivable from Government	Tk	212,761,756	N/A N/A	210,605,008	210,605,008	-1%		
D 6.2*	Accounts receivable from Private	Tk	1,140,547,849	N/A N/A	1,061,135,965	1,061,135,965	-1%		
D 0.2	Long term loans	Tk	0	227,285,288	0	303,047,050	100%	11	
D 8*	Operating Ratio	Ratio	0.61	0.63	0.79	0.72	1	++	
			l .	i	ł.		13%		
D 9*	Collection period	Day	225	230	282	263	13%		

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		Unit	This month	Year to date	Previous	This	Evaluation	Remarks *3	
		0,,,,,	11110 111011111		year	year	*2	++	Too good
					actual	target *1		!	Very bad
E) Water	Supply								5.00
E 3	Capacity of Surface WTP (Mohora+Sk.H.WTP-1+Sk.H.WTP-2+SR	MLD	466	N/A	466	490	-5%		
E 4	Capacity of Ground WTP	MLD	68	N/A	68	68	0%		
E 5	Deep Tube Wells in Operation	Nos.	48	N/A	47	47	2%		
E 6*	Capacity of DTW - direct distribution	MLD	36	N/A	48	48	-25%	!	
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	569	N/A	581	605	-6%		
E 9	Length of Pipeline	km	962	N/A	962	992	-3%		
E 15*	Production (distributable water)	ML	13,143.33	158,135	165,187	164,250	5%		
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	9.42	16.43	12.31	20.53	20%		
E 17*	Non Revenue Water	%	26	31	30	23	-35%	!	
E 18*	Leakage occurrence	No./km/mth	0.32	0.36	0.38	5.04	93%	++	
E 19		No./month	200	2,200	2,400	2,400	-92%	!	
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	nnel					100 Page 110		AND CO. THE COMMON CO.	
F 1	No. of permanent employees (Total)	Nos.	556	N/A	591	732	24%		
F 1.1	Grade-3-9	Nos.	54	N/A	59	60	N/A	++	
F 1.2	Grade-10-11	Nos.	36	N/A	37	62	N/A	++	
F 1.3	Grade-12-16	Nos.	230	N/A	254	300	N/A	++	
F 1.4	Grade-17-20	Nos.	236	N/A	241	310	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) Outsource in	Nos.	0	N/A	0	300	N/A	++	
F 5.3	Project staff (hired by project budget)	Nos.	50	N/A	50	50	N/A	++ .	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)		6.4	N/A	7.3	8.5	25%		
F 3	Average Monthly Salary	Tk	18,156	N/A	18,802	19,960	9%		
F 4*	% of Overtime to Basic Salary	%	27	N/A	1	32	16%		
G) Cust	omer Services					\$100 miles 100 m			
G 1	New Service Connection			,					
G 1.1	Service Connection Application Received	Nos.	327	4,784	5,296	6,000	-13%		
G 1.2	Service Connection given	Nos.	142	4,626	4,934	5,000	1%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	200	2,120	2,510	4,500	49%	++	
G 2.2	Complaints acted on	Nos.	165	1,669	2,050	3,500	48%	++	
G 3	Leakage complaints received and attended	Nos.	311	3,845	4,422	5,000	16%	<u></u>	

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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 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)] 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.

Prepared by:

(Richard Nelson Penheiro) Executive Engineer (A.C) **Design Division** Chattogram WASA Chattogram.

Submitted by:

Noted by

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