CHATTOGRAM WATER SUPPLY AND SEWERAGE AUTHORITY



MANAGEMENT INFORMATION SYSTEM REPORT FOR THE MONTH OF FEBRUARY-2024

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Chattogram Water Supply & Sewerage Authority Monthly MIS Report February 2024

		Unit	This month	Year to date	Previous	This	Evaluation	Remarks *3	}
1					year	year	*2	++	Too good
					actual	target *1		!	Very bad
	ed Key Indicators								Link Cont
E 17*	Non Revenue Water	%	28	31	31	28	-12%		
C 4*	Revenue collection efficiency(monthly coll.+outstand. Coll.)/month	%	89	88	87	116	-23%		
D 9*	Collection period	Day	246	263	235	200	-32%	!	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Em	Nos.	6.0	N/A	6.4	7.1	16%		
D 8*	Operating Ratio	Ratio	0.64	0.73	0.66	0.57	-28%	!	
A 3.5*	Functioning meter rate of installed meter	%	90	N/A	92	100	-10%		
E 19	Water quality sample	No./month	240	1,920	2,400	2,880	-92%	!	
E 18*	Leakage occurrence	No./km/mtl	0.33	0.29	0.35	1.81	84%	++	
A 6*	Water supply coverage	%	65	N/A	64	75	-13%		
B 5*	Average tariff	Tk/m3	19.88	18.95	18.14	17.45	14%		
E 16*	Unit production cost (in/c Capt. Cost, Deprec. & Financial Expense.	Tk/m3	19.10	19.04	18.71	19.50	2%		
A) Conn	A) Connection data								A AMERICA
A 1	Total registered connections	Nos.	95,870	N/A	92,327	97,127	-1%	ļ	
A 1.1	Billable (non-disconnected) connection	Nos.	89,875	N/A	86,395	91,195	-1%		
A 1.2	Non-billable (disconnected) connection	Nos.	5,995	N/A	5,932	5932	-1%		
A 1.3	Billed connection	Nos.	88,129	N/A	83,698	88,270	0%		
A 2	Breakdown of billable connection (by customer type)								
A 2.1*	Domestic	%	93	N/A	93	92	1%		
A 2.2	Non-domestic	%	7	N/A	7	8	10%		
A 3	Breakdown of billable connection (by meter status)								
A 3.1	Metered	Nos.	80,899	N/A	78,966	83,092	-3%		
A 3.2	Average reading	Nos.	8,873	N/A	7,326	8,000	-11%		
A 3.3	Non meter	Nos.	103	N/A	103	103	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	92	100	-10%		
A 4	Street Hydrant	Nos.	689	N/A	689	689	0%		
A 5	Religious Institutions	Nos.	368	N/A	368	317	16%		
A 6*	Water supply coverage	%	65	N/A	64	75	-13%		
A 7	Bill sent-out ratio	%	98	N/A	97	100	-2%		



	Unit	This month	Year to date	Previous	This	Evaluation	Remarks *3
				year	year	*2	++ Too good
				actual	target *1		! Very bad
B) Tariff	And States	A STATE OF CASE				N. C.	
B 1 Domestic	Tk/m3	18.00	N/A	18.00	18.90	-5%	
B 2 Non-domestic	Tk/m3	37.00	N/A	37.00	38.85	-5%	
B 3 Street Hydrant	Tk/m3	18.00	N/A	18.00	18.90	-5%	
B 4 Religious Institutions	Tk/m3	18.00	N/A	18.00	18.90	-5%	
B 5* Average tariff	Tk/m3	19.88	18.95	18.14	17.45	14%	
C) Billing and Collection	, W.E.						Particular and the second
C 1 Total billing	Tk	198,051,887	1,553,743,020	2,155,873,661	2,292,809,481	2%	
C 1.1* Private	Tk	173,232,036	1,366,103,368	1,888,365,971	1,948,888,059	5%	
C 1.2* Government	Tk	24,819,851	187,639,652	267,507,690	343,921, 4 22	-18%	
C 2 Billed volume (Total Volume Accounted)	ML	9,963	82,005	118,868	131, 4 00	-6%	
C 3 Total collection	Tk	176,480,519	1,365,477,254	1,878,166,418	2,664,792,000	-23%	
C 3.1* Private	Tk	165,414,486	1,298,027,837	1,738,727,636	2,345,016,960	-17%	
C 3.2* Government	Tk	11,066,033	67,449,417	139,438,782	319,775,0 4 0	-68%	!
C 4* Revenue collection efficiency(monthly coll.+outstand. Coll.)/monthly bill.		89	88	87	116	-23%	
C 4.1* Private	%	95	95	92	120	-21%	_
C 4.2* Government	%	45	36	52	93	-52%	!
D) Financial data		1100			22.163		
D 1 Revenue (Total)	Tk	215,424,407	1,550,668,722	2,203,110,954	3,025,592,000	-23%	
D 1.1 Water revenue	Tk	176,480,519	1,365,477,254	1,878,166,418	2,664,792,000	-23%	
D 1.2* Tubewell license	Tk .	20,993,775	46,854,963	125,253,767	100,000,000	-30%	!
D 1.3* Other operating revenues	Tk	10,450,113	78,336,505	99,690,769	170,800,000	-31%	, !
D 1.4* Interest income	Tk	7,500,000	60,000,000	100,000,000	90,000,000	0%	
D 2 Expenses (Total)	Tk	263,784,144	2,271,291,214	3,224,457,367	3,559,449,000	4%	
D 2.1* Personnel cost	Tk	34,699,144	311,118,214	442,684,994	602,585,000	23%	
D 2.2 Electricity cost	Tk	70,548,000	610,336,000	762,236,000	760,000,000	-20%	
D 2.3 Chemicals	Tk	25,788,000	88,770,000	111,276,000	140,000,000	5%	
D 2.4* Depreciation	Tk	125,000,000	1,000,000,000	1,471,943,373	1,500,000,000	0%	
D 2.5 Other operating cost	Tk	7,749,000	261,067,000	436,317,000	556,864,000	30%	++
D 2.5.1 Other O & M	Tk	6,176,000	116,951,000	148,795,000	214,144,000	1	
D 2.5.2 Capital cost from revenues	Tk	1,573,000	144,116,000	287,522,000	342,720,000	1	++
D 2.6* Financial expense	Tk	0	0	0	0	#DIV/0!	#DIV/0!
D 3 Net Income (Loss)	Tk	(48,359,737)	(720,622,491)	(1,021,346,413)	(533,857,000)		++
D 4* Cash at bank	Tk	0	N/A	0	0	1	
D 5* Stock & stores	Tk	0	0	0	0	l l	
D 6 Accounts Receivable	Tk	1,680,714,848	N/A	1,386,963,271	1,386,963,271	-21%	
D 6.1* Accounts receivable from Government	Tk	360,063,693	N/A	228,472,232	228,472,232	1	!
D 6.2* Accounts receivable from Private	Tk	1,320,651,155	N/A	1,158,491,039	1,158,491,039	i .	
D 7* Long term loans	Tk	0	120,462,000	303,047,050	212,160,000	1	++
D 8* Operating Ratio	Ratio	0.64	0.73	0.66	0.57	-28%	!
D 9* Collection period	Day	246	263	235	200	-32%	!

12

month!

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E) Water Supply								
E 3 Capacit	ity of Surface WTP (Mohora+Sk.H.WTP-1+Sk.H.WTP-2+SR	MLD	466	N/A	466	490	-5%	
E 4 Capacit	ity of Ground WTP	MLD	68	N/A	68	68	0%	
E 5 Deep T	Tube Wells in Operation	Nos.	44	N/A	48	47	-6%	
E 6* Capacii	ity of DTW - direct distribution	MLD	32	N/A	35	48	-32%	! •
E 7* Capacit	ity of DTW - supply to GWTP	MLD	0	N/A	0 .	0	#DIV/0!	#DIV/0!
E 8* Capacit	ity of distributable water production	MLD	566	N/A	569	605	-7%	
E 9 Length	n of Pipeline	km	962	N/A	962	992	-3%	
E 15* Produc	ction (distributable water)	ML	13,812.89	119,286	172,320	182,500	-2%	
E 15.1* DTW w	water to users before boosters	ML	0	0	0	0	N/A	
E 16* Unit prod	duction cost (in/c Capt. Cost,Deprec. & Financial Expense.)	Tk/m3	19.10	19.04	18.71	19.50	2%	
E 17* Non Re	levenue Water	%	28	31	31	28	-12%	
E 18* Leakag	ge occurrence	No./km/mth	0.33	0.29	0.35	1.81	84%	++
E 19 Water	quality sample	No./month	240	1,920	2,400	2,880	-92%	!
E 20* Satisfa	actory sample in chlorine level	%	100	100	100	100	0%	,
	actory sample in microbiological level	%	100	100	100	100	0%	
F) Personnel						And the second second	12.1	
F 1 No. of	permanent employees (Total)	Nos.	535	N/A	554	650	18%	
F 1.1 Grad	de-3-9	Nos.	56	N/A	54	60	N/A	++
F 1.2 Grad	de-10-11	Nos.	36	N/A	36	62	N/A	++
F 1.3 Grad	de-12-16	Nos.	210	N/A	229	260	N/A	++
F 1.4 Grad	de-17-20	Nos.	233	N/A	235	268	N/A	++
F 5 No. of	non-permanent employees (Total)	Nos.	0	N/A	0	0	#DIV/0!	#DIV/0!
F 5.1 Wor	rk charge (6 month contract worker)	Nos.	0	N/A	0	0	N/A	++
F 5.2 Mas	ster roll (Daily basis casual worker) Outsource in	Nos.	0	N/A	0	300	N/A	++
F 5.3 Proje	ject staff (hired by project budget)	Nos.	50	N/A	50	50	N/A	++
F 2* No. of p	perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	6.0	N/A	6.4	7.1	16%	
F 3 Averag	ge Monthly Salary	Tk	32,272	N/A	19,364	31,195	-3%	
F 4* % of O	Overtime to Basic Salary	%	27	N/A	14	32	15%	
G) Customer Se	ervices		die 100 kg			3, 3645 22 22	100 300 100	
G 1 New S	Service Connection							
G 1.1 Sen	rvice Connection Application Received	Nos.	428	3,434	5,202	5,000	3%	
G 1.2 Sen	rvice Connection given	Nos.	354	3,275	4,769	4,000	23%	
G 2 Billing	g complaints							
l		1	100	1 4	1 0000	0.700	1 440/	1

Unit

This month

Year to date

This

year target *1

2,700

2,200

1,800

2,300

1,819

4,078

14%

11%

-89%

Previous

year

actual

Evaluation Remarks *3

++

Too good Very bad

*2



Leakage complaints received and attended

Complaints received

Complaints acted on



Nos.

Nos.

Nos.



180

160

321

1,555

1,300

2,271

le

G 2.1

G 2.2

G 3

B5: Avera C1.1: "Pri C1.2: "Gc C3.1: "Sar C4: Reve There C4.1: Sar C5: Mete D1.2: "Lic D1.3: Exc D1.4: As D2.1: Inc D2.4: Da D2.6: Da D4: Unde D5: Unde D6.1: Sa D7: Long D8: To s the op D9: Colle E6: Prod E7: Prod E15: Dis E15.1: R E16: Uni E17: NR E18: Lee E20: Thi

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 C3.2: Same as C1.2 C3.1: Same as C1.1. 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). C4.2: Same as C4 C4.1: 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. D6.2: Same as C1.2 D6.1: Same as C1.1. 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.

SAE

ΑE

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

SEP 24

মাত্র ক্রান্ত্রম প্রধান প্রকৌশনী চন্ত্রমাম ওয়ালা, চন্তরাম।

DMD (E)