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CHATTOGRAM WATER SUPPLY AND SEWERAGE AUTHORITY



**MANAGEMENT INFORMATION SYSTEM REPORT
FOR THE MONTH OF February-2026**

**WASA BHABAN
DAMPARA
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Chattogram Water Supply & Sewerage Authority
Monthly MIS Report
February 2026

		Unit	This month	Year to date	Previous year actual	This year target *1	Evaluation *2	Remarks *3	
								++ Too good	! Very bad
Selected Key Indicators									
E	17*	Non Revenue Water= {1-(billed water(C2)/distributable water production(E15*))} X 100	%	17	23	26	24	4%	
C	4*	Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill. = (collection(C3)/billing(C1)) X100	%	83	89	89	89	-7%	
D	9*	Collection period = (accounts receivable(D6)/monthly billings(C1)) X number of days of month	Day	339	364	323	200	-82%	!
F	2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.) = (No. of permanent staff(F1) + non-permanent staff(F5) / total billable connections (A1.1)) X1000	Nos.	5.0	N/A	5.3	7.6	35%	++
D	8*	Operating Ratio = (personal cost (D2.1) + electricity cost (D2.2) + chemical cost (D2.3) + other O & M (D2.5.1)) / (Total Revenues(D1))	Ratio	0.70	0.72	0.74	1.69	57%	++
A	3.5*	Functioning meter rate of installed meter = no. of metered (A3.1)/ (no. of metered (A3.1) + average reading (A3.2)) X 100	%	89	N/A	90	90	-1%	
E	19	Water quality sample (E19)	No./month	240	1,920	2,880	240	0%	
E	18*	Leakage occurrence = (no. of leakage recognized by complaint (G3)/ Length of Pipeline at the end of period(E9)/ no. of months covered)	No./km/mth	0.25	1.62	0.28	1.81	11%	
A	6*	Water supply coverage = ((Billed connection (A1.3) X 26 Person per Connection) + (Total Street Hydrant (A4) X 80 Person per Street Hydrant) / Total Population in water Supply Area (N.B)) X 100	%	66	N/A	68	68	-3%	
B	5*	Average tariff = (Total billing(C1)/ Billed volume(C2)) / 1000	Tk/m3	17.82	17.58	18.61	17.70	1%	
E	16*	Unit production cost (in/c Capt. Cost,Deprec. & Financial Expense.) = Expenses Total(D2)/ (Production distributable water(E15*) +DTW Water directly distributed (E15.1*)) / 1000)	Tk/m3	21.53	19.71	22.21	34.16	42%	++
A) Connection data									
A	1	Total registered connections	Nos.	103,576	N/A	101,482	104,226	-1%	
A	1.1	Billable (non-disconnected) connection	Nos.	97,390	N/A	95,369	98,102	-1%	
A	1.2	Non-billable (disconnected) connection	Nos.	6,186	N/A	6,113	6124	-1%	
A	1.3	Billed connection	Nos.	91,781	N/A	91,276	94,548	-3%	
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	17%	
A	3	Breakdown of billable connection (by meter status)							
A	3.1	Metered	Nos.	86,826	N/A	85,361	88,114	-1%	
A	3.2	Average reading	Nos.	10,463	N/A	9,907	9,886	-6%	
A	3.3	Non meter	Nos.	101	N/A	101	102	1%	
A	3.4*	Meter installation rate	%	100	N/A	100	100	0%	
A	3.5*	Functioning meter rate of installed meter	%	89	N/A	90	90	-1%	
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	%	66	N/A	68	68	-3%	
A	7	Bill sent-out ratio	%	94	N/A	96	96	-2%	

[N: B: Population for This Year (2025-26): 3,721,269]

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		Unit	This month	Year to date	Previous year actual	This year target *1	Evaluation *2	Remarks *3	
								++	Too good Very bad
B) Tariff									
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	17.82	17.58	18.61	17.70	1%		
C) Billing and Collection									
C 1	Total billing	Tk	194,253,578	1,571,808,134	2,366,807,829	2,700,000,000	-13%		
C 1.1*	Private	Tk	171,061,787	1,387,412,054	2,087,378,804	2,350,000,000	-11%		
C 1.2*	Government	Tk	23,191,791	184,396,080	279,429,025	350,000,000	-21%		
C 2	Billed volume (Total Volume Accounted)	ML	10,898	89,427	127,149	152,570	-12%		
C 3	Total collection	Tk	161,343,611	1,399,764,108	2,101,279,167	2,400,000,000	-13%		
C 3.1*	Private	Tk	154,782,054	1,320,508,603	1,980,058,840	2,000,000,000	-1%		
C 3.2*	Government	Tk	6,561,557	79,255,505	121,220,327	400,000,000	-70%	!	
C 4*	Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill.	%	83	89	89	89	-7%		
C 4.1*	Private	%	90	95	95	85	6%		
C 4.2*	Government	%	28	43	43	114	-75%	!	
D) Financial data									
D 1	Revenue (Total)	Tk	199,660,087	1,595,436,825	2,418,341,233	2,829,300,000	-15%		
D 1.1	Water revenue	Tk	161,343,611	1,399,764,108	2,101,279,167	2,400,000,000	-13%		
D 1.2*	Tubewell license	Tk	21,614,831	45,527,066	116,071,886	120,000,000	-43%	!	
D 1.3*	Other operating revenues	Tk	5,868,312	63,478,985	100,990,180	179,300,000	-47%	!	
D 1.4*	Interest income	Tk	10,833,333	86,666,667	100,000,000	130,000,000	0%		
D 2	Expenses (Total)	Tk	282,623,057	2,292,474,146	3,819,316,426	6,857,199,106	50%	++	
D 2.1*	Personnel cost	Tk	40,378,715	313,315,410	495,484,777	651,864,000	28%	++	
D 2.2	Electricity cost	Tk	81,023,000	657,298,000	1,016,463,000	1,000,000,000	1%		
D 2.3	Chemicals	Tk	7,329,000	62,419,000	138,232,000	150,000,000	38%	++	
D 2.4*	Depreciation	Tk	109,979,832	879,838,656	1,550,195,820	1,319,757,986	0%		
D 2.5	Other operating cost	Tk	25,634,000	233,375,000	399,891,000	3,516,235,000	90%	++	
D 2.5.1	Other O & M	Tk	11,428,000	113,608,000	139,182,000	2,966,535,000	94%	++	
D 2.5.2	Capital cost from revenues	Tk	14,206,000	119,767,000	260,709,000	549,700,000	67%	++	
D 2.6*	Financial expense	Tk	600,000	4,800,000.00	6,907,709	7,200,000	0%		
D 3	Net Income (Loss)	Tk	(82,962,970)	(697,037,321)	(1,400,975,194)	(4,027,899,106)	-74%	!	
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	2,352,670,938	N/A	2,096,154,776	2,456,286,417	4%		
D 6.1*	Accounts receivable from Government	Tk	633,202,777	N/A	526,816,674	652,384,556.46	3%		
D 6.2*	Accounts receivable from Private	Tk	1,719,468,161	N/A	1,569,338,102	1,803,901,860.70	5%		
D 7*	Long term loans	Tk	17,678,510	141,428,080	212,142,120	212,142,120	92%	++	
D 8*	Operating Ratio	Ratio	0.70	0.72	0.74	1.69	57%	++	
D 9*	Collection period	Day	339	364	323	200	-82%	!	

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		Unit	This month	Year to date	Previous year actual	This year target *1	Evaluation *2	Remarks *3	
								++ Too good ! Very bad	
E) Water Supply									
E 3	Capacity of Surface WTP (Mohora+Kwsp-1+Kwsp-2+Modunaghat)	MLD	466	N/A	466	526	-11%		
E 4	Capacity of Ground WTP	MLD	68	N/A	68	68	0%		
E 5	Deep Tube Wells in Operation	Nos.	43	N/A	40	51	-16%		
E 6*	Capacity of DTW - direct distribution	MLD	30	N/A	30	32	-5%		
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	564	N/A	564	625	-10%		
E 9	Length of Pipeline	km	965	N/A	962	992	-3%		
E 15*	Production (distributable water)	ML	13,128.49	116,300	171,962	200,750	-13%		
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	21.53	19.71	22.21	34.16	42%	++	
E 17*	Non Revenue Water	%	17	23	26	24	4%		
E 18*	Leakage occurrence	No./km/mth	0.25	1.62	0.28	1.81	11%		
E 19	Water quality sample	No./month	240	1,920	2,880	240	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.	484	N/A	505	747	35%	++	
F 1.1	Grade-3-9	Nos.	56	N/A	56	60	N/A	++	
F 1.2	Grade-10-11	Nos.	35	N/A	35	62	N/A	++	
F 1.3	Grade-12-16	Nos.	182	N/A	191	310	N/A	++	
F 1.4	Grade-17-20	Nos.	211	N/A	223	315	N/A	++	
F 5	No. of non-permanent employees (Total)	Nos.	302	N/A	0	0	#DIV/0!	#DIV/0!	
F 5.1	Work charge (6 month contract worker) Completed Project Staff	Nos.	34	N/A	0	0	N/A	++	
F 5.2	Master roll (Daily basis casual worker) & Outsource in	Nos.	243	N/A	0	300	N/A	++	
F 5.3	Project staff (hired by project budget)	Nos.	25	N/A	25	50	N/A	++	
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	5.0	N/A	5.3	7.6	35%	++	
F 3	Average Monthly Salary	Tk	24,231	N/A	20,979	49,519	51%	++	
F 4*	% of Overtime to Basic Salary	%	31.20	N/A	13	30	-3%		
G) Customer Services									
G 1	New Service Connection								
G 1.1	Service Connection Application Received	Nos.	144	1,781	3,066	2,950	-9%		
G 1.2	Service Connection given	Nos.	203	1,713	3,130	2,850	-10%		
G 2	Billing complaints								
G 2.1	Complaints received	Nos.	130	1,000	2,180	2,200	32%	++	
G 2.2	Complaints acted on	Nos.	100	810	1,930	2,000	39%	++	
G 3	Leakage complaints received and attended	Nos.	239	1,567	2,676	1,800	-31%	!	

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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).

A3.5: Functioning meter rate = 1 - (number of average reading connection / number of billable connection). This indicator is used as a proxy of ratio of metered water sold to total water sold.

A6: Water supply coverage is defined as (population served with piped water + population served by street hydrant) / population in service area.

In FY 2010/11, this was estimated at 42% (= (1.192 million + 0.07 million) / 2.98 million)

Supply coverage of this month is computed based on the following assumptions used in Business Plan.

(population in service area = 3 million; user population per connection = 30; population served with standpipes = 100,000; number of standpipes = 689)

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).

C4.2: 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)/((Distributable 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.

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(মূলভার, বাঙালার)
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(Richard Vitor Benheiro)
Senior Engineer (A/C)
Water Division
Chattogram WASA Chattogram.

12/06/16
SE (P&C)

12/06/16
মাসুদ আলম
প্রধান প্রকৌশলী
চট্টগ্রাম ওয়াসা, চট্টগ্রাম।

12/06/16
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