

৩৩/
CHATTOGRAM WATER SUPPLY AND SEWERAGE AUTHORITY



**MANAGEMENT INFORMATION SYSTEM REPORT
FOR THE MONTH OF July-2025**

**WASA BHABAN
DAMPARA
CHATTOGRAM, BANGLADESH**

Phone : 880-31-2851806
Fax : 880-31-610465
Email : info@ctg-wasa.org.bd

90(1)

Chattogram Water Supply & Sewerage Authority
Monthly MIS Report
July 2025

		Unit	This month	Year to date	Previous year actual	This year target *1	Evaluation *2	Remarks *3
Selected Key Indicators								++ Too good ! Very bad
E 17*	Non Revenue Water= {1-(billed water(C2)/distributable water production(E15*))} X 100	%	26	26	26	24	-8%	
C 4*	Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill. = (collection(C3)/billing(C1)) X100	%	102	102	89	89	15%	
D 9*	Collection period = (accounts receivable(D6)/monthly billings(C1)) X number of days of month	Day	341	335	323	200	-67%	!
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.	5.3	N/A	5.3	7.6	31%	++
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	0.62	0.62	0.74	1.69	63%	++
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	%	90	N/A	90	90	0%	
E 19	Water quality sample (E19)	No./month	240	240	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	0.09	0.09	0.28	1.81	95%	++
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	%	65	N/A	68	68	-3%	
B 5*	Average tariff = (Total billing(C1)/ Billed volume(C2)) / 1000	Tk/m3	17.51	17.51	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	17.88	17.88	22.21	34.16	48%	++
A) Connection data								
A 1	Total registered connections	Nos.	101,753	N/A	101,482	104,226	-2%	
A 1.1	Billable (non-disconnected) connection	Nos.	95,629	N/A	95,369	98,102	-3%	
A 1.2	Non-billable (disconnected) connection	Nos.	6,124	N/A	6,113	6124	0%	
A 1.3	Billed connection	Nos.	91,592	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	16%	
A 3	Breakdown of billable connection (by meter status)							
A 3.1	Metered	Nos.	85,642	N/A	85,361	88,114	-3%	
A 3.2	Average reading	Nos.	9,886	N/A	9,907	9,886	0%	
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	%	90	N/A	90	90	0%	
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	68	68	-3%	
A 7	Bill sent-out ratio	%	96	N/A	96	96	-1%	

[Handwritten signature]

[Handwritten signature]

90(2)

	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	17.51	17.51	18.61	17.70	-1%		
C) Billing and Collection								
C 1 Total billing	Tk	193,232,841	193,232,841	2,366,807,829	2,700,000,000	-14%		
C 1.1* Private	Tk	170,654,986	170,654,986	2,087,378,804	2,350,000,000	-13%		
C 1.2* Government	Tk	22,577,855	22,577,855	279,429,025	350,000,000	-23%		
C 2 Billed volume (Total Volume Accounted)	ML	11,035	11,035	127,149	152,570	-13%		
C 3 Total collection	Tk	196,788,813	196,788,813	2,101,279,167	2,400,000,000	-2%		
C 3.1* Private	Tk	181,649,070	181,649,070	1,980,058,840	2,000,000,000	9%		
C 3.2* Government	Tk	15,139,743	15,139,743	121,220,327	400,000,000	-55%	!	
C 4* Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill.	%	102	102	89	89	15%		
C 4.1* Private	%	106	106	95	85	25%	++	
C 4.2* Government	%	67	67	43	114	-41%	!	
D) Financial data								
D 1 Revenue (Total)	Tk	220,946,809	220,946,809	2,418,341,233	2,829,300,000	-6%		
D 1.1 Water revenue	Tk	196,788,813	196,788,813	2,101,279,167	2,400,000,000	-2%		
D 1.2* Tubewell license	Tk	5,492,141	5,492,141	116,071,886	120,000,000	-45%	!	
D 1.3* Other operating revenues	Tk	7,832,521	7,832,521	100,990,180	179,300,000	-48%	!	
D 1.4* Interest income	Tk	10,833,333	10,833,333	100,000,000	130,000,000	0%		
D 2 Expenses (Total)	Tk	266,003,182	266,003,182	3,819,316,426	6,857,199,106	53%	++	
D 2.1* Personnel cost	Tk	37,854,840	37,854,840	495,484,777	651,864,000	30%	++	
D 2.2 Electricity cost	Tk	98,703,000	98,703,000	1,016,463,000	1,000,000,000	-18%		
D 2.3 Chemicals	Tk	0	0	138,232,000	150,000,000	100%	++	
D 2.4* Depreciation	Tk	109,979,832	109,979,832	1,550,195,820	1,319,757,986	0%		
D 2.5 Other operating cost	Tk	1,187,000	1,187,000	399,891,000	3,516,235,000	100%	++	
D 2.5.1 Other O & M	Tk	1,187,000	1,187,000	139,182,000	2,966,535,000	100%	++	
D 2.5.2 Capital cost from revenues	Tk	0	0	260,709,000	549,700,000	100%	++	
D 2.6* Financial expense	Tk	600,000	600,000.00	6,907,709	7,200,000	0%		
D 3 Net Income (Loss)	Tk	(45,056,373)	(45,056,373)	(1,400,975,194)	(4,027,899,106)	-87%	!	
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	2,126,633,057	N/A	2,096,154,776	2,456,286,417	13%		
D 6.1* Accounts receivable from Government	Tk	540,978,669	N/A	526,816,674	652,384,556.46	17%		
D 6.2* Accounts receivable from Private	Tk	1,585,654,388	N/A	1,569,338,102	1,803,901,860.70	12%		
D 7* Long term loans	Tk	17,678,510	17,678,510	212,142,120	212,142,120	92%	++	
D 8* Operating Ratio	Ratio	0.62	0.62	0.74	1.69	63%	++	
D 9* Collection period	Day	341	335	323	200	-67%	!	

22

PR

PR

		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.	39	N/A	40	51	-24%	
E 6*	Capacity of DTW - direct distribution	MLD	29	N/A	30	32	-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	562	N/A	564	625	-10%	
E 9	Length of Pipeline	km	965	N/A	962	992	-3%	
E 15*	Production (distributable water)	ML	14,880.81	14,881	171,962	200,750	-11%	
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	17.88	17.88	22.21	34.16	48%	++
E 17*	Non Revenue Water	%	26	26	26	24	-8%	
E 18*	Leakage occurrence	No./km/mth	0.09	0.09	0.28	1.81	95%	++
E 19	Water quality sample	No./month	240	240	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.	503	N/A	505	747	33%	++
F 1.1	Grade-3-9	Nos.	55	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.	191	N/A	191	310	N/A	++
F 1.4	Grade-17-20	Nos.	222	N/A	223	315	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.	25	N/A	25	50	N/A	++
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	5.3	N/A	5.3	7.6	31%	++
F 3	Average Monthly Salary	Tk	31,158	N/A	20,979	49,519	37%	++
F 4*	% of Overtime to Basic Salary	%	72.47	N/A	13	30	-139%	!
G) Customer Services								
G 1	New Service Connection							
G 1.1	Service Connection Application Received	Nos.	193	193	3,066	2,950	-21%	
G 1.2	Service Connection given	Nos.	163	163	3,130	2,850	-31%	!
G 2	Billing complaints							
G 2.1	Complaints received	Nos.	130	130	2,180	2,200	29%	++
G 2.2	Complaints acted on	Nos.	100	100	1,930	2,000	40%	++
G 3	Leakage complaints received and attended	Nos.	89	89	2,676	1,800	41%	++

Handwritten initials/signature

Handwritten signature

৯৭৭

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).

C4.1: 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)/((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

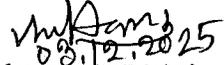
E18: Leakage occurrence = Number of leakage recognized by complaint / length of pipeline at the end of period / number of months covered

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.


03.12.2025
(সহকারী প্রকৌশলী)
উত্তরায়ন
ডিউটি বিভাগ
চট্টগ্রাম ওয়াসা, চট্টগ্রাম।


AE


03.12.2025
XEN


03.12.2025
SE (P&C)


মাকসুদ আলম
প্রধান প্রকৌশলী
চট্টগ্রাম ওয়াসা, চট্টগ্রাম।


DMD (E)