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CHATTOGRAM WATER SUPPLY AND SEWERAGE AUTHORITY



**MANAGEMENT INFORMATION SYSTEM REPORT
FOR THE MONTH OF October-2024**

**WASA BHABAN
DAMPARA
CHATTOGRAM, BANGLADESH**

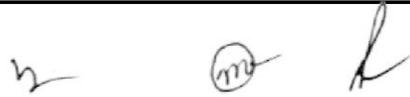
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Chattogram Water Supply & Sewerage Authority
Monthly MIS Report
October 2024

	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	%	31	30	30	25	-21%
C 4*	Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill. = (collection(C3)/billing(C1)) X100	%	86	86	90	129	-34% !
D 9*	Collection period = (accounts receivable(D6)/monthly billings(C1)) X number of days of month	Day	299	290	270	200	-45% !
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.	5.6	N/A	5.8	6.0	6%
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	0.79	0.79	0.71	0.56	-41% !
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	960	2,880	2,880	-92% !
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	0.30	0.24	0.28	2.27	89% ++
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	66	67	-2%
B 5*	Average tariff = (Total billing(C1)/ Billed volume(C2)) / 1000	Tk/m3	18.62	19.03	19.00	20.00	-7%
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	19.69	18.98	20.30	21.90	13%
A) Connection data							
A 1	Total registered connections	Nos.	98,486	N/A	97,137	101,222	-3%
A 1.1	Billable (non-disconnected) connection	Nos.	92,435	N/A	91,121	95,220	-3%
A 1.2	Non-billable (disconnected) connection	Nos.	6,051	N/A	6,016	6002	-1%
A 1.3	Billed connection	Nos.	90,380	N/A	89,508	91,932	-2%
A 2	Breakdown of billable connection (by customer type)						
A 2.1*	Domestic	%	93	N/A	93	91	2%
A 2.2	Non-domestic	%	7	N/A	7	9	23%
A 3	Breakdown of billable connection (by meter status)						
A 3.1	Metered	Nos.	82,736	N/A	81,589	85,572	-3%
A 3.2	Average reading	Nos.	9,597	N/A	9,430	9,546	-1%
A 3.3	Non meter	Nos.	102	N/A	102	102	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	90	90	0%
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	%	65	N/A	66	67	-2%
A 7	Bill sent-out ratio	%	98	N/A	98	97	1%



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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/m ³	18.00	N/A	18.00	18.90	-5%	
B 2 Non-domestic	Tk/m ³	37.00	N/A	37.00	38.85	-5%	
B 3 Street Hydrant	Tk/m ³	18.00	N/A	18.00	18.90	-5%	
B 4 Religious Institutions	Tk/r ³	18.00	N/A	18.00	18.90	-5%	
B 5* Average tariff	Tk/m ³	18.62	19.03	19.00	20.00	-7%	
C) Billing and Collection							
C 1 Total billing	Tk	197,339,700	797,109,907	2,347,888,407	2,400,000,000	0%	
C 1.1* Private	Tk	174,521,407	704,291,227	2,062,051,833	2,160,000,000	-2%	
C 1.2* Government	Tk	22,818,293	92,818,680	285,836,574	240,000,000	16%	
C 2 Billed volume (Total Volume Accounted)	ML	10,598	41,885	123,549	120,000	5%	
C 3 Total collection	Tk	168,899,303	683,655,704	2,105,177,399	3,094,120,000	-34%	!
C 3.1* Private	Tk	162,609,194	645,125,687	1,992,878,824	2,929,067,275	-34%	!
C 3.2* Government	Tk	6,290,109	38,530,017	112,298,575	165,052,725	-30%	!
C 4* Revenue collection efficiency (monthly coll.+ outstand. Coll.)/ monthly bill.	%	86	86	90	129	-34%	!
C 4.1* Private	%	93	92	97	136	-31%	!
C 4.2* Government	%	28	42	39	69	-60%	!
D) Financial data							
D 1 Revenue (Total)	Tk	188,475,305	761,316,581	2,425,189,135	3,457,920,000	-34%	!
D 1.1 Water revenue	Tk	168,899,303	683,655,704	2,105,177,399	3,094,120,000	-34%	!
D 1.2* Tubewell license	Tk	2,028,481	11,665,249	115,878,743	100,000,000	-65%	!
D 1.3* Other operating revenues	Tk	9,214,188	32,662,295	114,132,993	163,800,000	-40%	!
D 1.4* Interest income	Tk	8,333,333	33,333,333	90,000,000	100,000,000	0%	
D 2 Expenses (Total)	Tk	302,631,784	1,138,356,418	3,583,597,467	4,396,985,820	22%	
D 2.1* Personnel cost	Tk	40,168,178	156,873,557	517,744,367	631,470,000	25%	++
D 2.2 Electricity cost	Tk	82,378,000	372,519,000	912,448,000	920,000,000	-21%	
D 2.3 Chemicals	Tk	16,850,000	45,133,000	139,542,000	140,000,000	3%	
D 2.4* Depreciation	Tk	129,182,985	516,731,940	1,500,000,000	1,550,195,820	0%	
D 2.5 Other operating cost	Tk	14,139,000	45,215,000	513,863,100	935,960,000	86%	++
D 2.5.1 Other O & M	Tk	9,673,000	29,716,000	159,148,100	260,700,000	66%	++
D 2.5.2 Capital cost from revenues	Tk	4,466,000	15,499,000	354,715,000	675,260,000	93%	++
D 2.6* Financial expense	Tk	627,974	1,883,921	0	7,200,000	22%	
D 3 Net Income (Loss)	Tk	(114,156,479)	(377,039,837)	(1,158,408,332)	(939,065,820)	20%	
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	1,900,549,244	N/A	1,737,729,584	1,737,729,584	-9%	
D 6.1* Accounts receivable from Government	Tk	441,688,131	N/A	366,318,868	366,318,888	-21%	
D 6.2* Accounts receivable from Private	Tk	1,458,861,113	N/A	1,371,410,696	1,371,410,696	-6%	
D 7* Long term loans	Tk	19,285,647	57,856,942	212,142,000	212,160,000	91%	++
D 8* Operating Ratio	Ratio	0.79	0.79	0.71	0.56	-41%	!
D 9* Collection period	Day	299	290	270	200	-45%	!

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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+Sk.H.WTP-1+Sk.H.WTP-2+SRPS)	MLD	466	N/A	466	466	0%
E 4	Capacity of Ground WTP	MLD	68	N/A	68	68	0%
E 5	Deep Tube Wells in Operation	Nos.	49	N/A	45	55	-11%
E 6*	Capacity of DTW - direct distribution	MLD	38	N/A	33	48	-20%
E 7*	Capacity of DTW - supply to GWTP	MLD	0	N/A	0	0	#DIV/0!
E 8*	Capacity of distributable water production	MLD	572	N/A	566	581	-2%
E 9	Length of Pipeline	km	962	N/A	962	992	-3%
E 15*	Production (distributable water)	ML	15,367.15	59,965	176,510.35	200,750	-10%
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	19.69	18.98	20.30	21.90	13%
E 17*	Non Revenue Water	%	31	30	30	25	-21%
E 18*	Leakage occurrence	No./km/mth	0.30	0.24	0.28	2.27	89%
E 19	Water quality sample	No./month	240	960	2,880	2,880	-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) Personnel							
F 1	No. of permanent employees (Total)	Nos.	522	N/A	527	570	8%
F 1.1	Grade-3-9	Nos.	57	N/A	56	60	N/A
F 1.2	Grade-10-11	Nos.	35	N/A	36	30	N/A
F 1.3	Grade-12-16	Nos.	200	N/A	203	260	N/A
F 1.4	Grade-17-20	Nos.	230	N/A	232	220	N/A
F 5	No. of non-permanent employees (Total)	Nos.	0	N/A	0	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	50	50	N/A
F 2*	No. of perma. employee per 1000 connections(excl. non-perma. Empl.)	Nos.	5.6	N/A	5.8	6.0	6%
F 3	Average Monthly Salary	Tk	31,274	N/A	21,044	33,516	7%
F 4*	% of Overtime to Basic Salary	%	34.75	N/A	24	32	-9%
G) Customer Services							
G 1	New Service Connection						
G 1.1	Service Connection Application Received	Nos.	343	1,020	4,570	4,000	-24%
G 1.2	Service Connection given	Nos.	343	1,036	4,480	3,800	-18%
G 2	Billing complaints						
G 2.1	Complaints received	Nos.	200	780	2,335	2,800	16%
G 2.2	Complaints acted on	Nos.	170	680	1,960	2,300	11%
G 3	Leakage complaints received and attended	Nos.	291	936	3,237	2,250	-25%

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1.7. 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), (4) 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 as 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.

Muhammad 025
 (সুধাভীমা আক্তার)
 ওডারশিয়ার
 ডিজাইন বিভাগ
 চট্টগ্রাম ওয়াসা চট্টগ্রাম

Richard Nelson Penheiro
 01.01.2025
 মোঃ ওয়াদ হারুন জৌহুরী
 সহকারী প্রকৌশলী
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 02/01/2025
 মোহাম্মদ আবুল হাসান
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Abulhasan
 02/01/2025
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